SCHEMATIC DIAGRAM

MODEL : 27AF62 Chassis No. TAC0201
27AF42 Chassis No. TAC0202

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

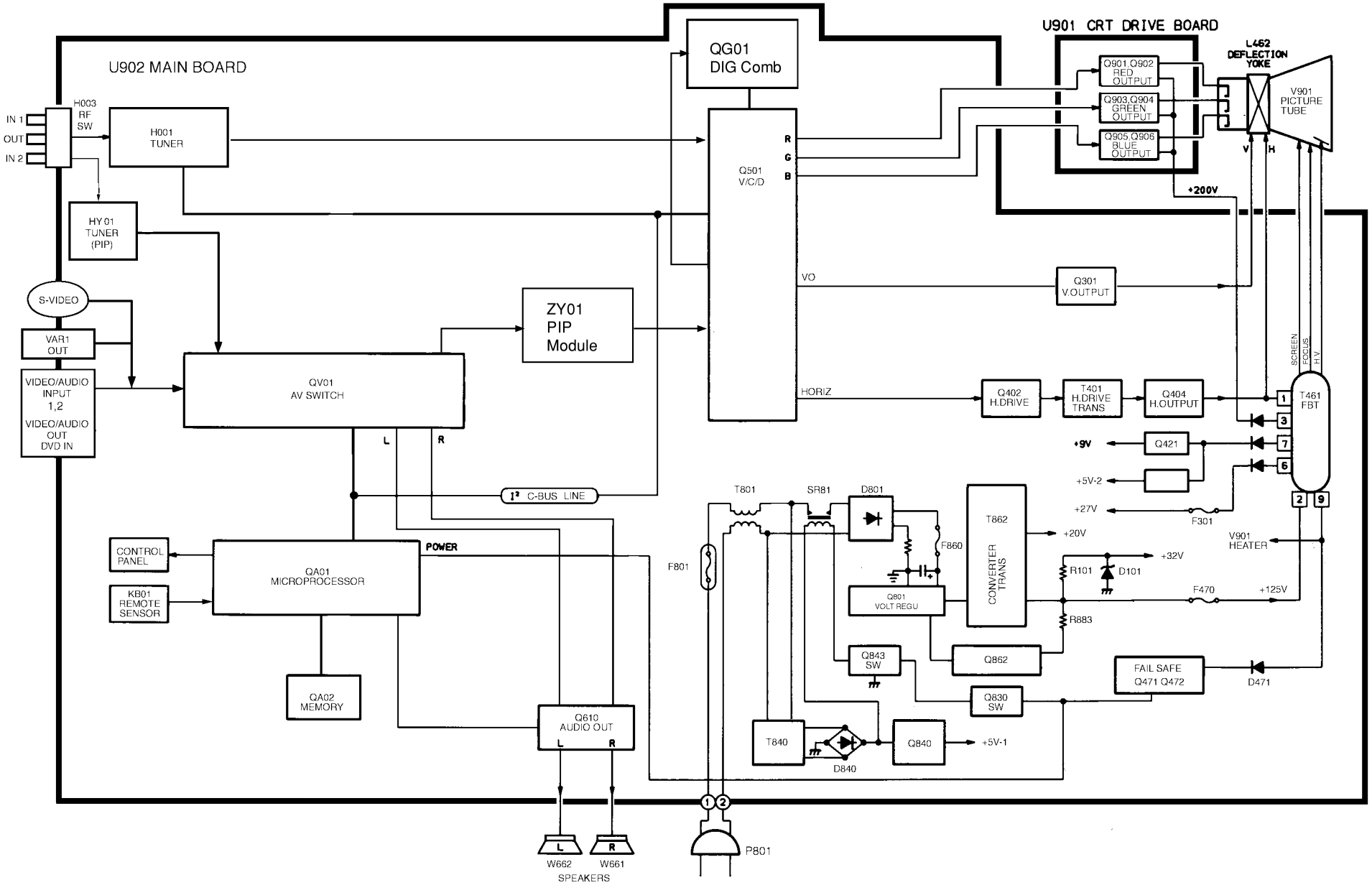
NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 120 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

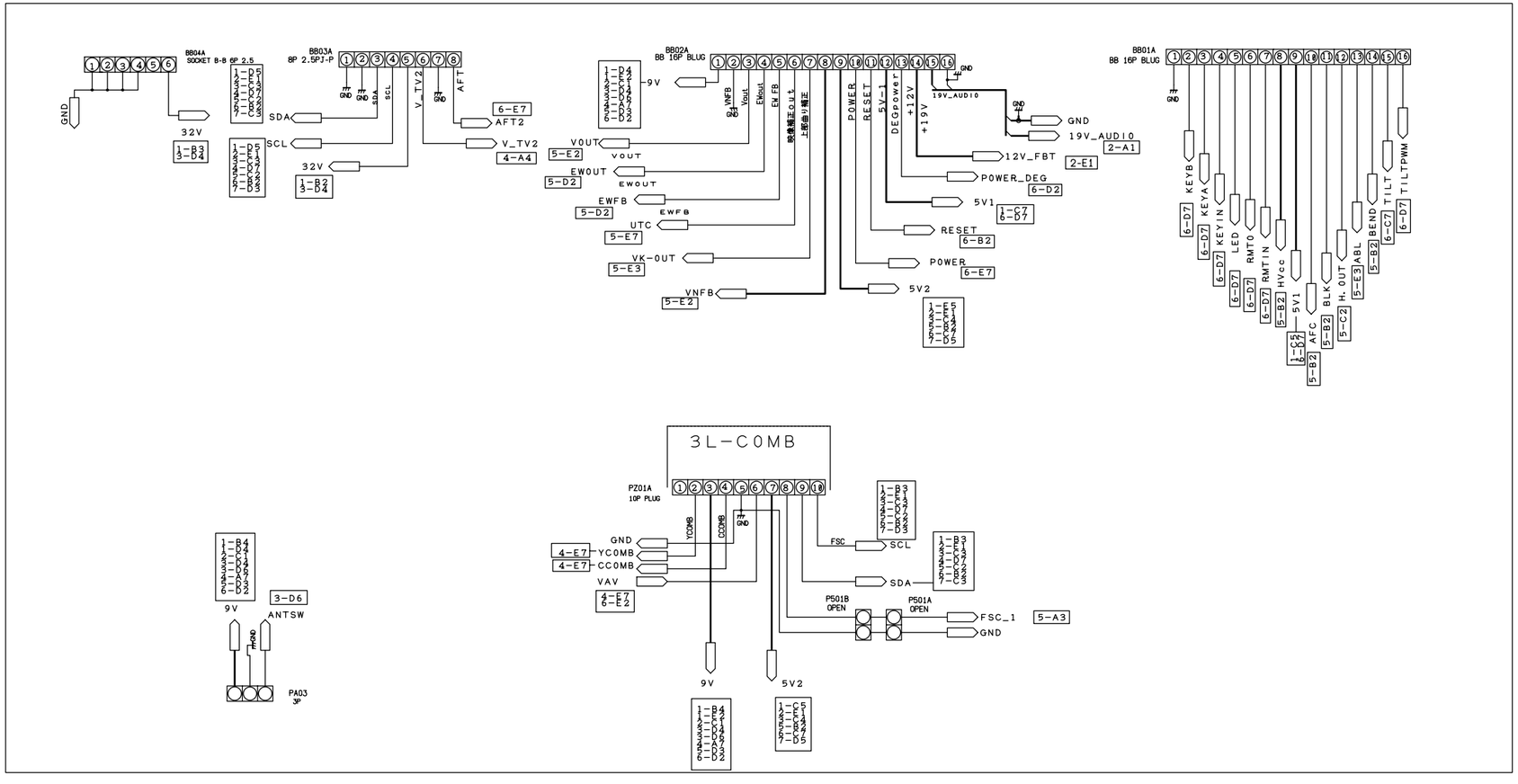
■ **SCHEMATIC DIAGRAM STRUCTURE:**

- SIGNAL Circuit
  - BANKAN [SHEET - 1/7] 1/15
  - AUDIO [SHEET - 2/7] 2/15
  - TUNER / IF [SHEET - 3/7] 3/15
  - AV-SW [SHEET - 4/7] 4/15
  - VCD [SHEET - 5/7] 5/15
  - MICON [SHEET - 6/7] 6/15
  - MW [SHEET - 7/7] 7/15
- POWER / DEF Circuit
  - BANKAN [SHEET - 1/7] 8/15
  - V-DEF-DPC [SHEET - 2/7] 9/15
  - H-DEF [SHEET - 3/7] 10/15
  - POWER [SHEET - 4/7] 11/15
  - KEY-LED [SHEET - 5/7] 12/15
  - TILT [SHEET - 6/7] 13/15
  - SUB-TUNER [SHEET - 7/7] 14/15
- CRT-D VM Circuit 15/15

CIRCUIT BLOCK DIAGRAM

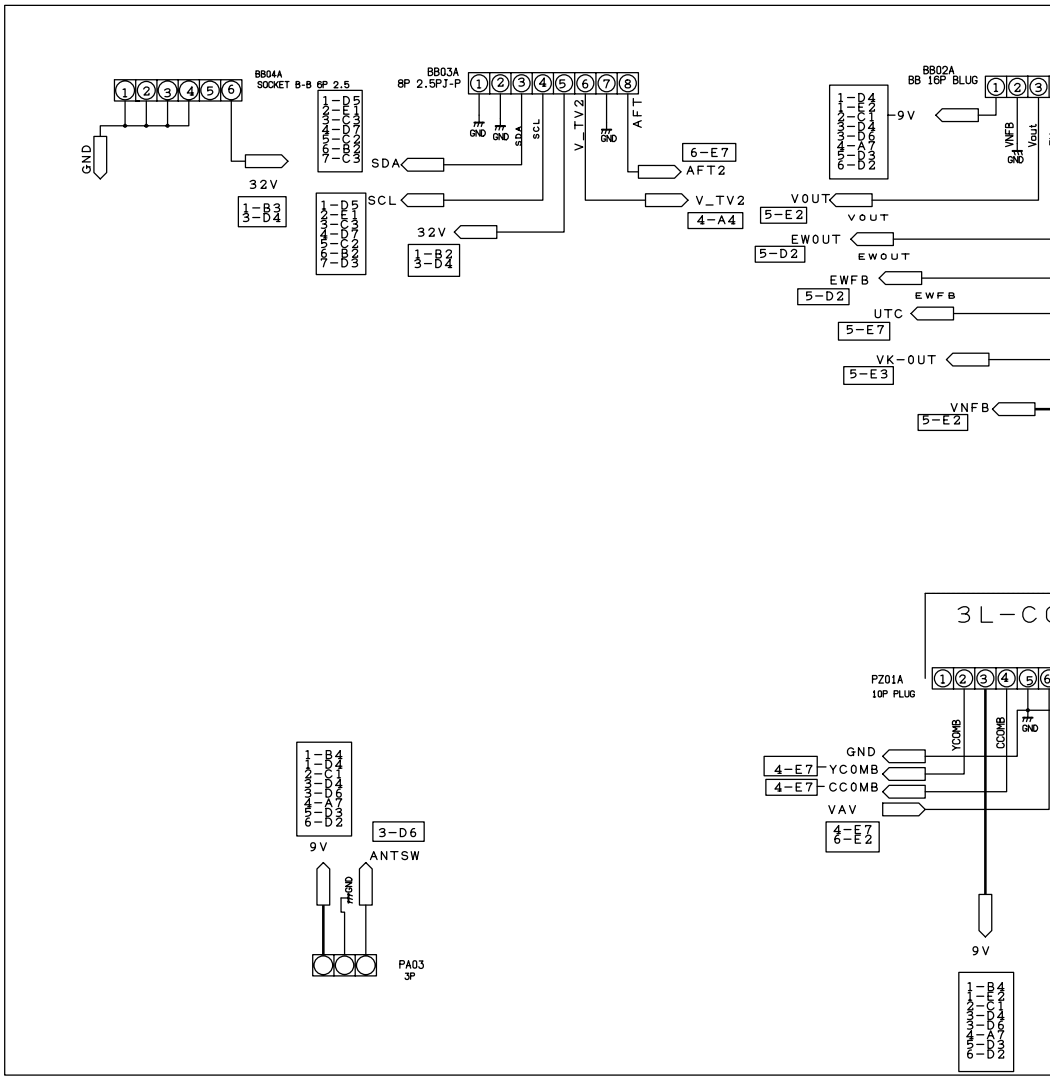


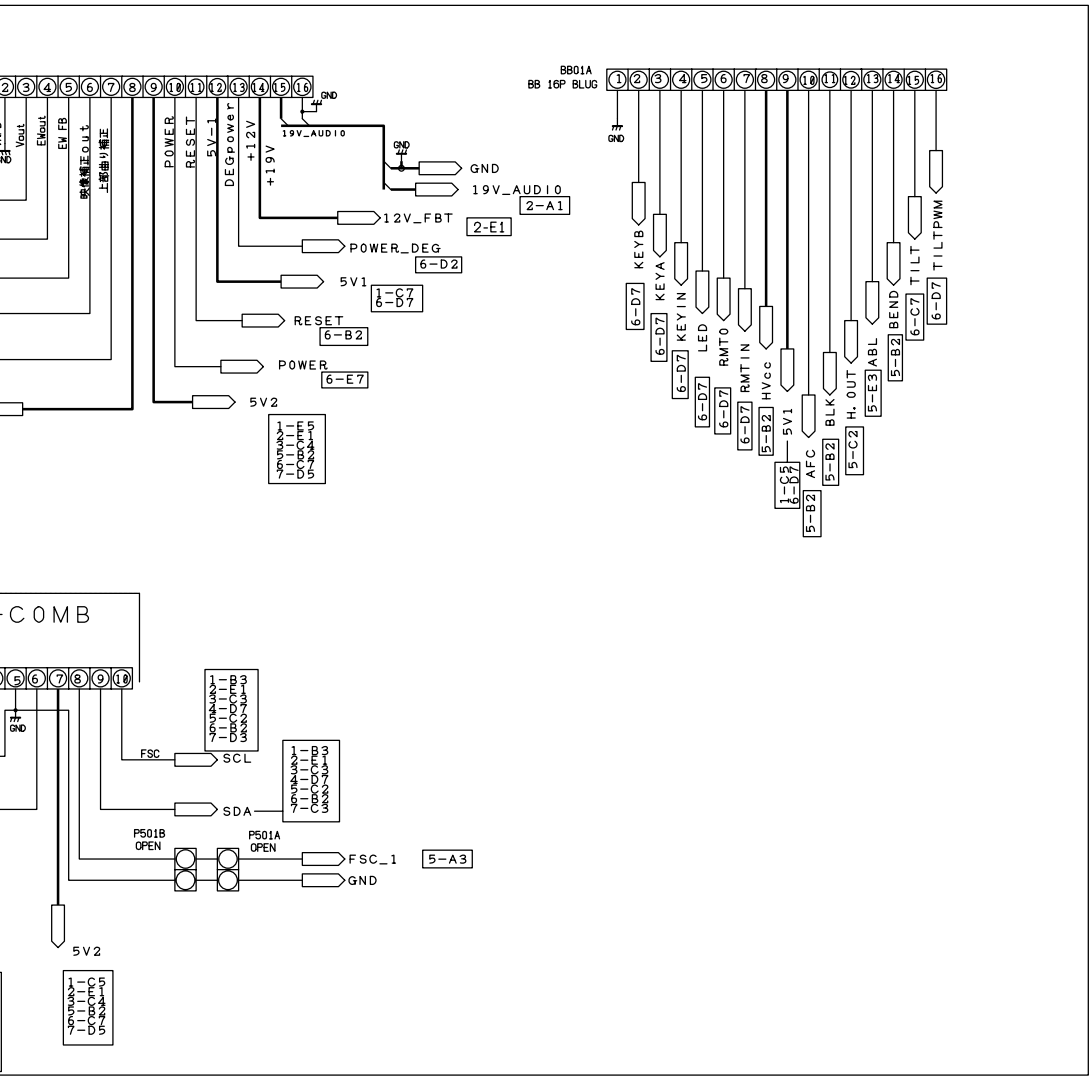
27AF62:PD0654A 32A62:PD0654C
27AF42:PD0654B



27AF62/27AF42
SIGNAL—BANKAN
[Sheet1/7]

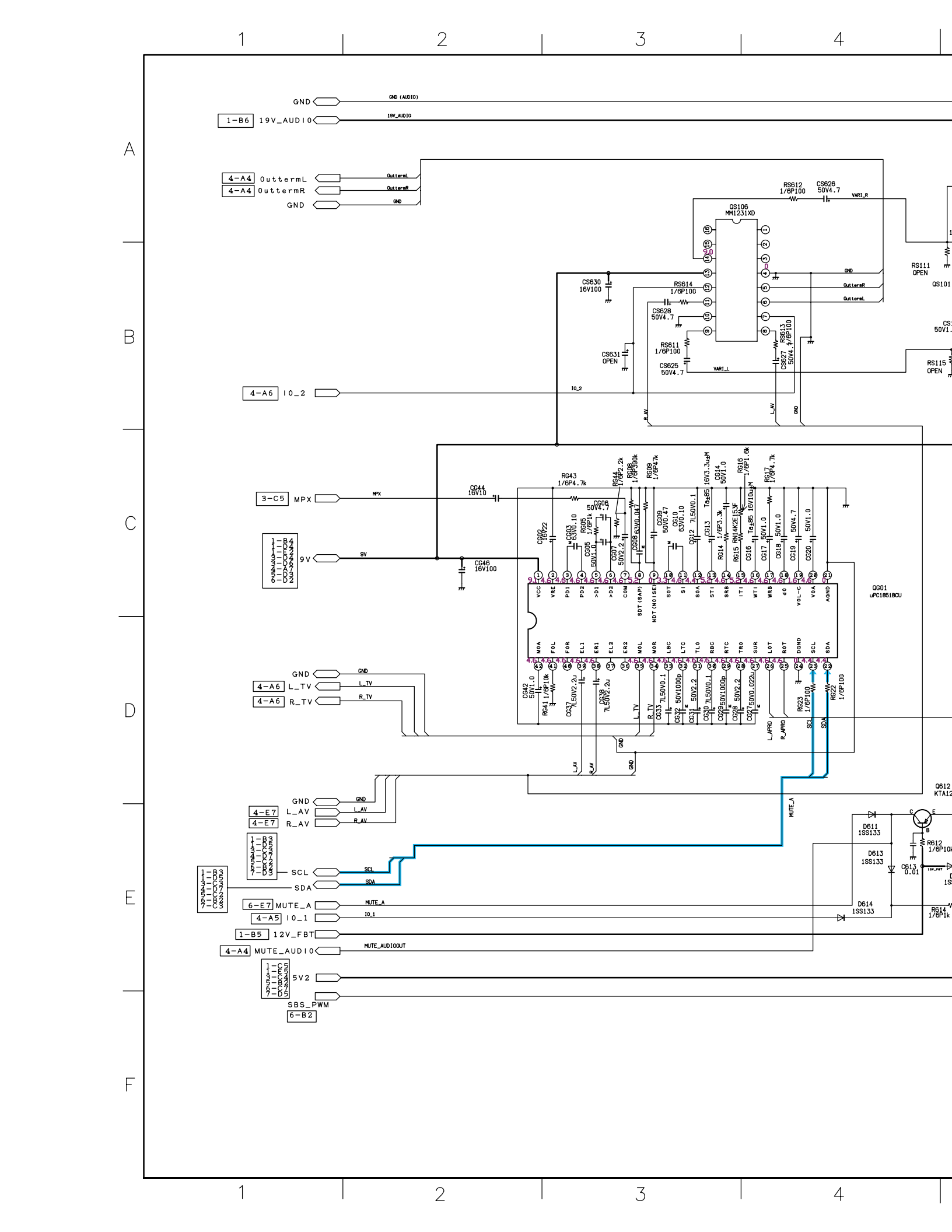
27AF62:PD0654A 32A62:PD0654C
27AF42:PD0654B

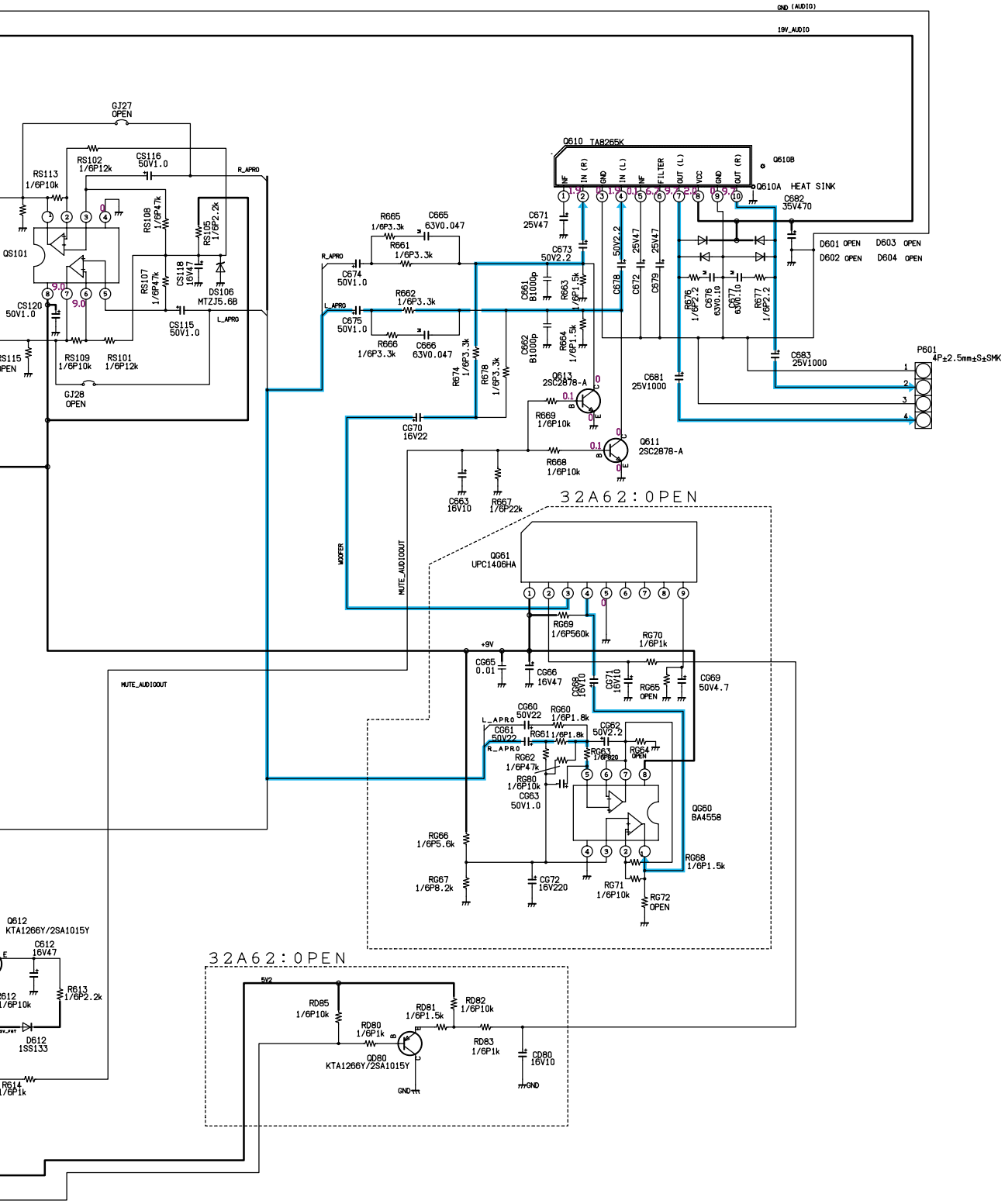




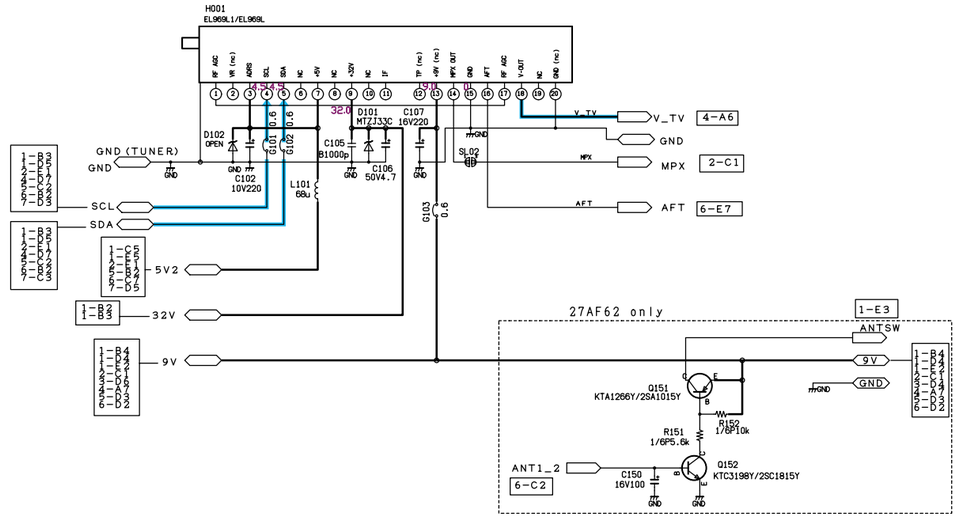
27AF62/27AF42
SIGNAL—BANKAN
[Sheet1/7]

GND
1-B6 19V_AUDIO
4-A4 OuttermL
4-A4 OuttermR
GND
4-A6 IO_2
3-C5 MPX
9V
GND
4-A6 L_TV
4-A6 R_TV
GND
4-E7 L_AV
4-E7 R_AV
SCL
SDA
6-E7 MUTE_A
4-A5 IO_1
1-B5 12V_FBT
4-A4 MUTE_AUDIO
5V2
SBS_PWM
6-B2
QS106 MM1231XD
QS101
QG01 μPC1851BCU
Q610 TA8265K
Q610A HEAT SINK
Q611 2SC2878-A
Q612 KTA1266Y/2SA1015Y
Q613 2SC2878-A
Q961 UPC1406HA
QD80 KTA1266Y/2SA1015Y
QG60 BA4558
P601 4P±2.5mm±S±SMK
D601 OPEN
D602 OPEN
D603 OPEN
D604 OPEN
D606 1SS133
D607 1SS133
D608 1SS133
D609 1SS133
D610 1SS133
D611 1SS133
D612 1SS133
D613 1SS133
D614 1SS133
DS106 MTZJ5.6B
32A62:0PEN
32A62:0PEN
27AF62/27AF42
SIGNAL—AUDIO
[Sheet2/7]

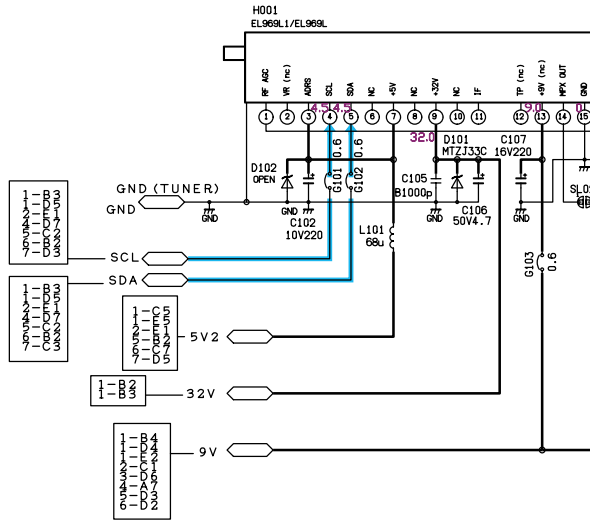

GND
GND (AUDIO)
1-B6 19V_AUDIO
19V_AUDIO
4-A4 OuttermL
4-A4 OuttermR
GND
OuttermL
OuttermR
GND
QS106
MM1231XD
RS612 1/6P100
CS626 50V4.7
VARI_R
RS111 OPEN
QS101
CS630 16V100
RS614 1/6P100
CS628 50V4.7
RS611 1/6P100
CS631 OPEN
CS625 50V4.7
RS613 1/6P100
CS627 50V4.7
VARI_L
RS115 OPEN
4-A6 IO_2
IO_2
R_AV
L_AV
GND
3-C5 MPX
MPX
CG44 16V10
RG43 1/6P4.7k
RG44 1/6P2.2k
RG08 1/6P39k
RG09 1/6P47k
CG14 50V1.0
RG16 1/6P1.6k
RG17 1/6P4.7k
CG06 50V4.7
CG02 16V22
CG03 63V0.10
RG05 1/6P1k
CG05 50V1.0
CG07 50V2.2
CG08 63V0.047
CG09 50V0.47
CG10 63V0.10
CG12 7L50V0.1
CG13 1/6P3.3k
RG14 RM-4K2E153F
RG15 1/6P1k
CG16 50V1.0
CG17 50V1.0
CG18 50V1.0
CG19 50V4.7
CG20 50V1.0
1-B4 1-D4 2-C4 3-C4 4-C4 5-C4 6-D4 1-A7 2-D3 6-D2
9V
CG46 16V100
QG01 uPC1851BCU
VCC VRE PD1 PD2 >D1 >D2 COM SDT(SAP) NDT(NOISE) SDT SI SOA ST1 SRB IT1 WT1 WRB gO VOL-C VOA AGND
MOA FOL FOR EL1 ER1 EL2 ER2 MOL MOR LBC LTC TLO RBC RTC TRO SUR LOT ROT DGND SCL SDA
GND
4-A6 L_TV
4-A6 R_TV
L_TV
R_TV
CG42 50V1.0
RG41 1/6P10k
CG37 7L50V2.2u
CG38 7L50V2.2u
CG33 7L50V0.1
CG32 50V1000p
CG31 50V2.2
CG30 7L50V0.1
CG29 50V1000p
CG28 50V2.2
CG27 50V0.022u
RG23 1/6P100
RG22 1/6P100
L_APRO
R_APRO
SCL
SDA
GND
4-E7 L_AV
4-E7 R_AV
L_AV
R_AV
1-B3 1-D5 2-C3 3-D7 4-C2 5-B2 7-D3
SCL
SDA
1-B3 1-D5 2-C3 3-D7 4-C2 5-B2 7-C3
SDA
6-E7 MUTE_A
4-A5 IO_1
1-B5 12V_FBT
4-A4 MUTE_AUDIOOUT
MUTE_A
IO_1
MUTE_AUDIOOUT
1-C1 1-E1 3-C1 4-C1 5-B1 6-C1 7-C1
5V2
SBS_PWM
6-B2
MUTE_A
Q612 KTA12
D611 1SS133
D613 1SS133
D614 1SS133
R612 1/6P10k
C613 0.01
R614 1/6P1k

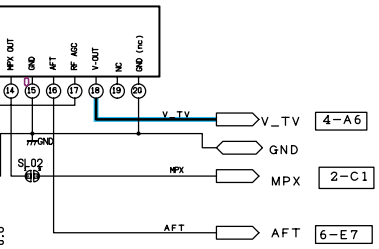


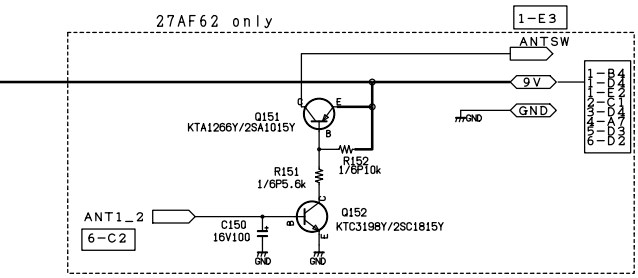
27AF62/27AF42
SIGNAL—AUDIO
[Sheet2/7]



27AF62/27AF42
SIGNAL—TUNER/IF
[Sheet3/7]


H001
EL969L1/EL969L
RF AGC
VR (nc)
AVRS
SCL
SDA
NC
+5V
NC
-32V
NC
IF
TP (nc)
+9V (nc)
HPX OUT
GND
4.5
4.4
32.0
19.0
D102
OPEN
G101
0.6
G102
0.6
C105
B1000p
D101
MTZJ33C
C107
16V220
C102
10V220
C106
50V4.7
L101
68u
G103
0.6
GND (TUNER)
GND
SCL
SDA
5V2
32V
9V

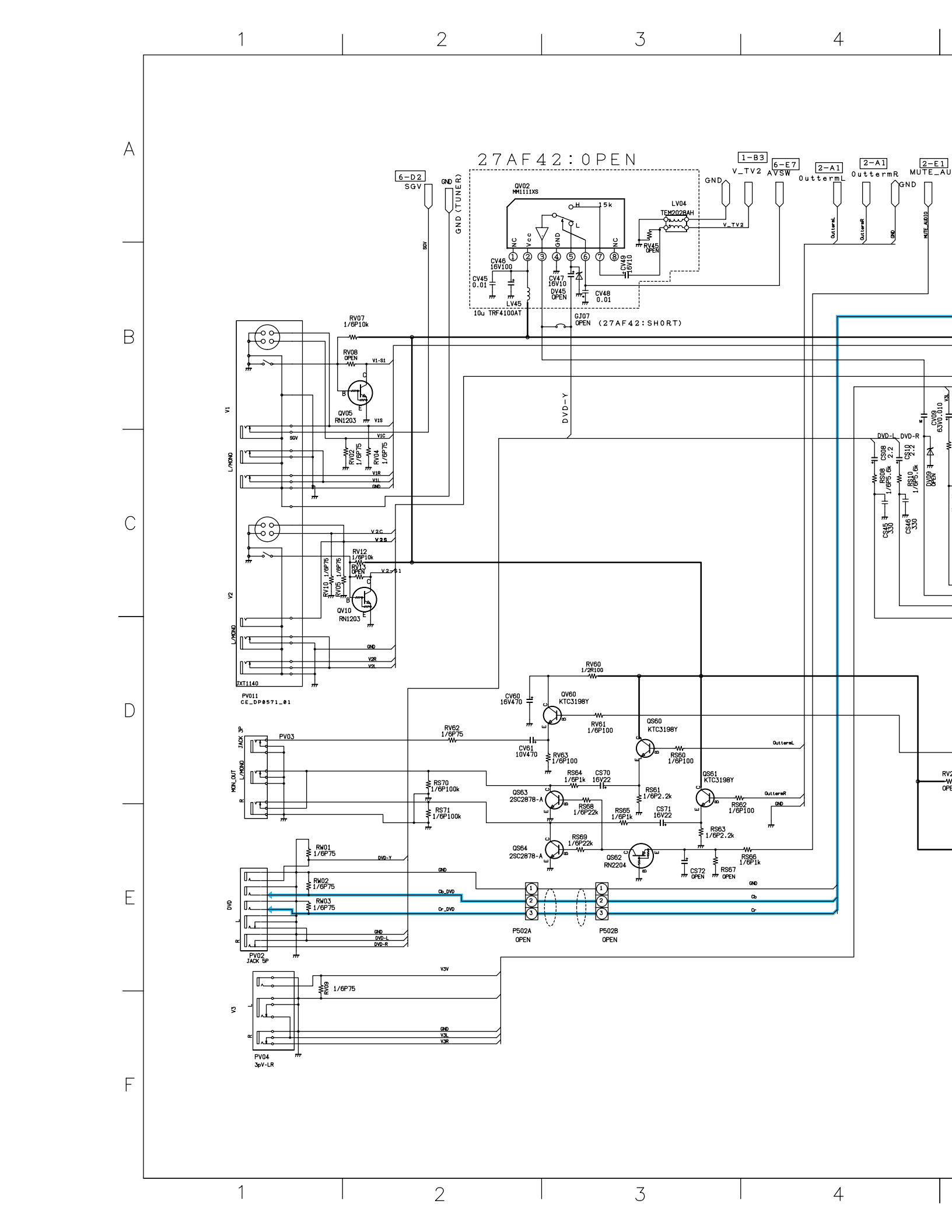


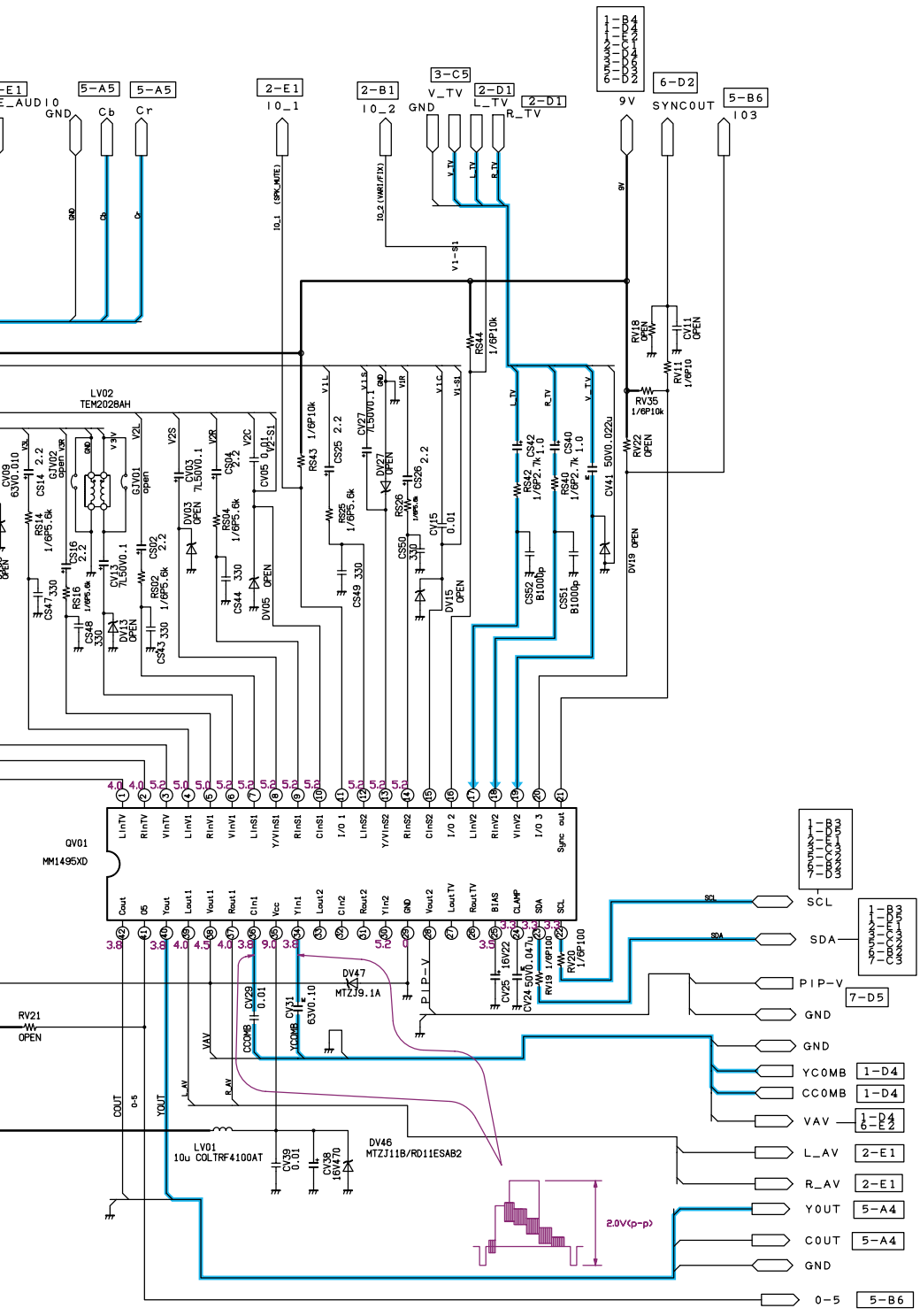


27AF62/27AF42
SIGNAL—TUNER/IF
[Sheet3/7]

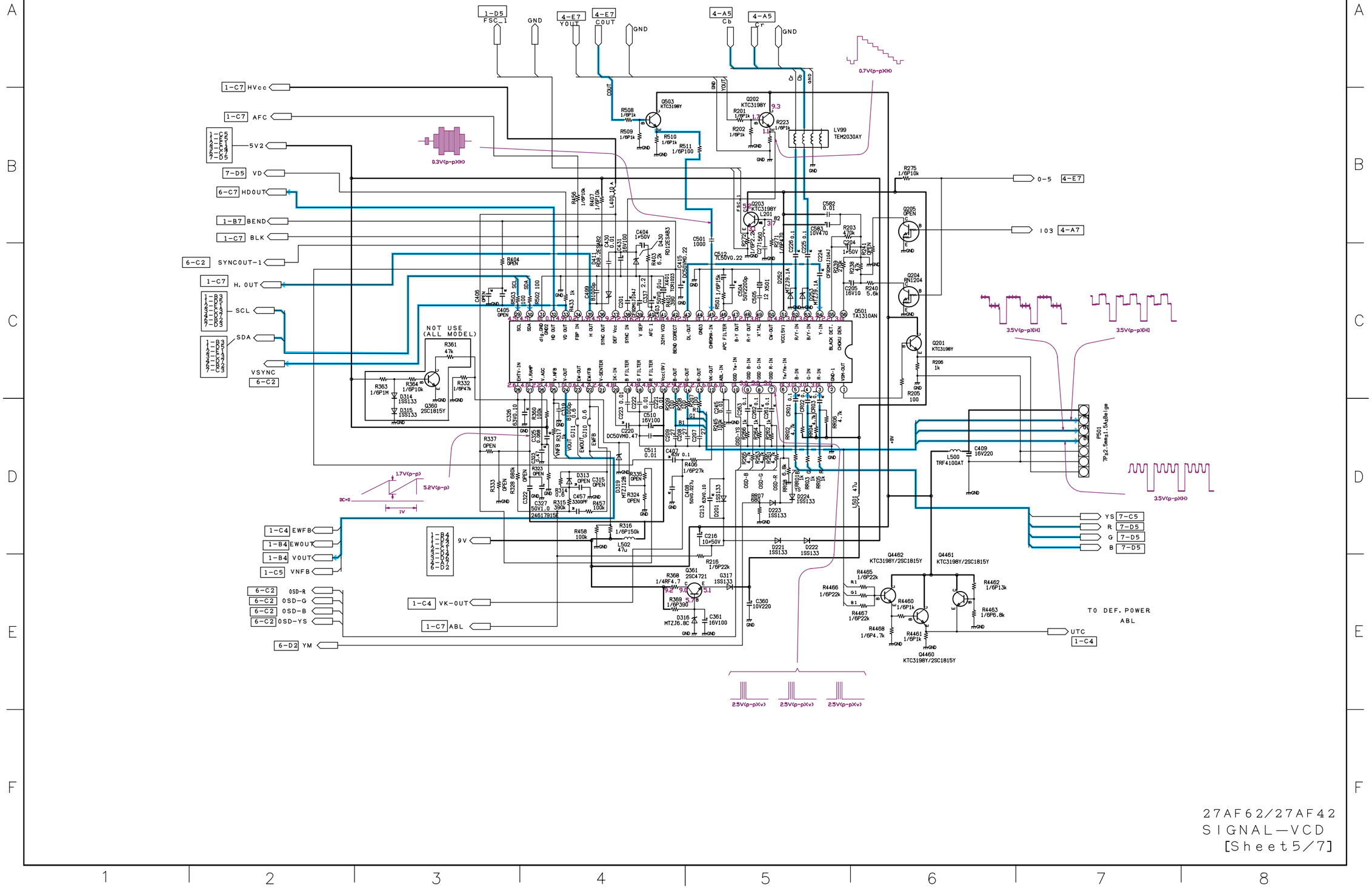
27AF42:OPEN

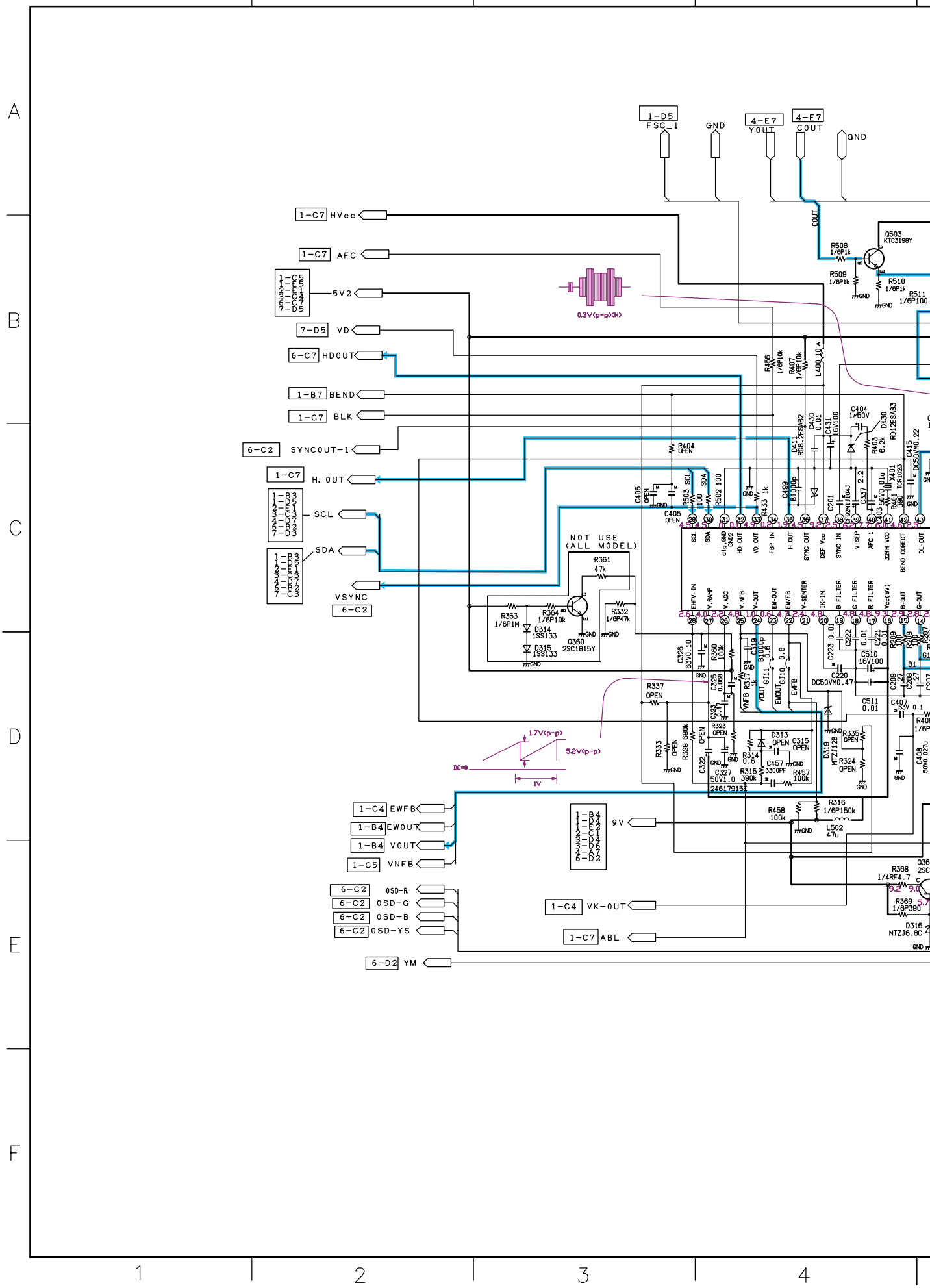
27AF62/27AF42
SIGNAL—AV—SW
[Sheet4/7]

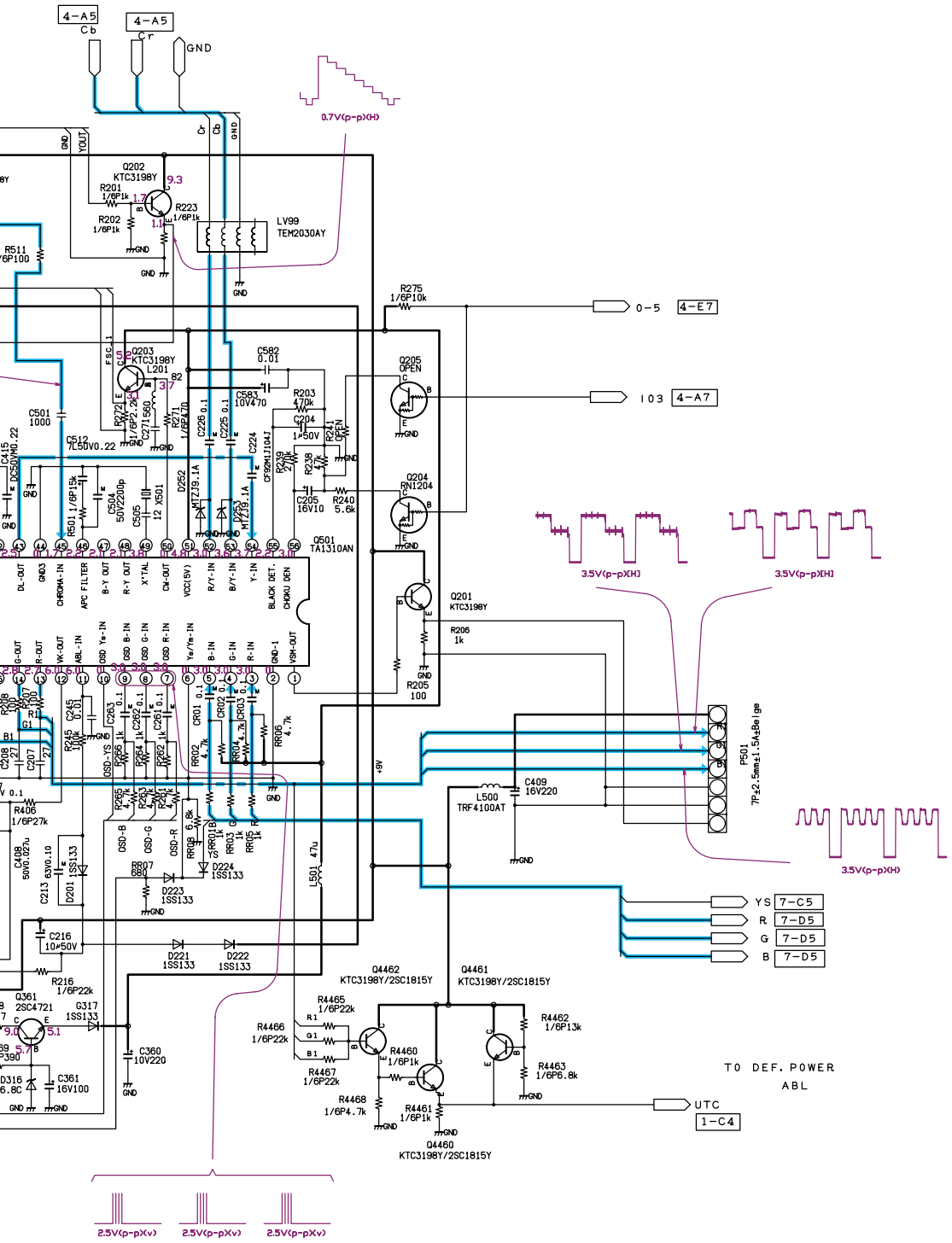

27AF42:OPEN
6-D2
SGV
GND
GND (TUNER)
QV02
MM1111XS
LV04
TEM2028AH
V_TV2
1-B3
6-E7
AVSW
2-A1
OuttermL
2-A1
OuttermR
2-E1
MUTE_AU
CV46 16V100
CV45 0.01
LV45
10u TRF4100AT
CV47 16V10
DV45 OPEN
CV48 0.01
CV49 16V10
RV45 OPEN
GJ07 OPEN (27AF42:SHORT)
RV07 1/6P10k
RV08 OPEN
QV05 RN1203
RV02 1/6P75
RV04 1/6P75
V1
L/MONO
JXT1140
PV011 CE_DP0571_01
RV12 1/6P10k
RV13 OPEN
RV10 1/6P75
RV05 1/6P75
QV10 RN1203
V2
L/MONO
DVD-Y
DVD-L
DVD-R
CV09 63V0.010
CS08 2.2
CS10 2.2
RS08 1/6P5.6k
RS10 1/6P5.6k
DV09 OPEN
CS45 330
CS46 330
RV60 1/2R100
CV60 16V470
QV60 KTC3198Y
RV61 1/6P100
QS60 KTC3198Y
RS60 1/6P100
RV62 1/6P75
CV61 10V470
RV63 1/6P100
PV03
JACK 3P
MON_OUT
L/MONO
RS70 1/6P100k
RS71 1/6P100k
RS64 1/6P1k
CS70 16V22
QS63 2SC2878-A
RS68 1/6P22k
RS61 1/6P2.2k
QS61 KTC3198Y
RS62 1/6P100
RS65 1/6P1k
CS71 16V22
RS63 1/6P2.2k
RS69 1/6P22k
QS64 2SC2878-A
QS62 RN2204
CS72 OPEN
RS67 OPEN
RS66 1/6P1k
RW01 1/6P75
RW02 1/6P75
RW03 1/6P75
DVD
Cb_DVD
Cr_DVD
P502A OPEN
P502B OPEN
PV02 JACK 6P
RV09 1/6P75
V3
PV04 3pV-LR



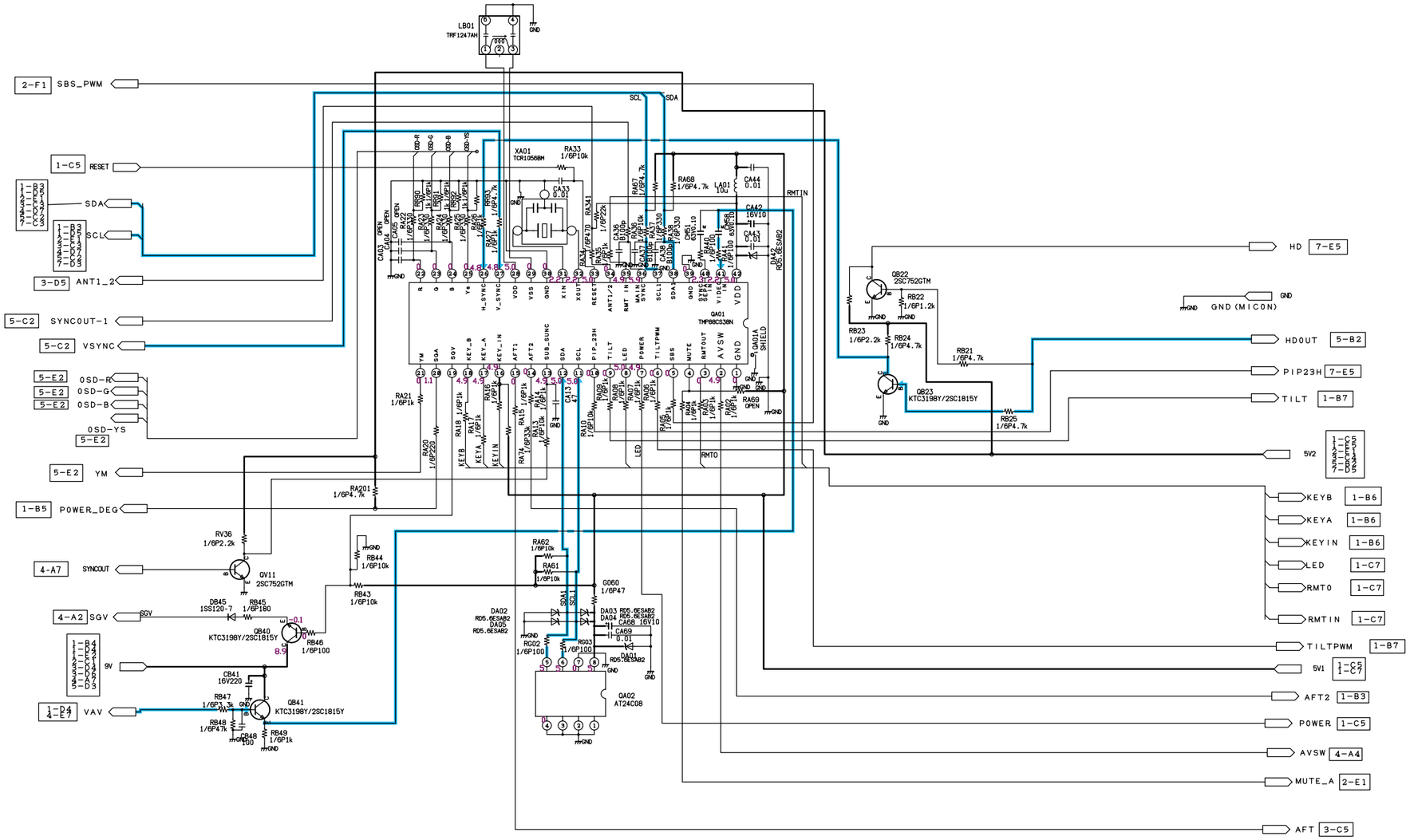
27AF62/27AF42
SIGNAL—AV—SW
[Sheet4/7]


1-D5 FSC_I
GND
4-E7 YOUT
4-E7 COUT
GND
4-A5 Cb
4-A5 Cr
GND
1-C7 HVcc
1-C7 AFC
5V2
7-D5 VD
6-C7 HD0UT
1-B7 BEND
1-C7 BLK
6-C2 SYNC0UT-1
1-C7 H. OUT
SCL
SDA
VSYNC
6-C2
NOT USE (ALL MODEL)
0.7V(p-pXH)
0.3V(p-pXH)
Q202 KTC3198Y
Q503 KTC3198Y
LV99 TEM2030AY
Q203 KTC3198Y
Q205 OPEN
Q204 RN1204
Q201 KTC3198Y
Q501 TA1310AN
0-5 4-E7
I03 4-A7
3.5V(p-p)(H)
P501 7P-2.5mm±1.5A±Belge
YS 7-C5
R 7-D5
G 7-D5
B 7-D5
L500 TRF4100AT
C409 16V220
L501 47u
9V
1-C4 EWFB
1-B4 EWOUT
1-B4 VOUT
1-C5 VNFB
6-C2 OSD-R
6-C2 OSD-G
6-C2 OSD-B
6-C2 OSD-YS
6-D2 YM
1-C4 VK-OUT
1-C7 ABL
1.7V(p-p)
5.2V(p-p)
DC=0
1V
2.5V(p-pXv)
2.5V(p-pXv)
2.5V(p-pXv)
Q4462 KTC3198Y/2SC1815Y
Q4461 KTC3198Y/2SC1815Y
Q4460 KTC3198Y/2SC1815Y
TO DEF. POWER
ABL
UTC 1-C4
27AF62/27AF42
SIGNAL—VCD
[Sheet5/7]

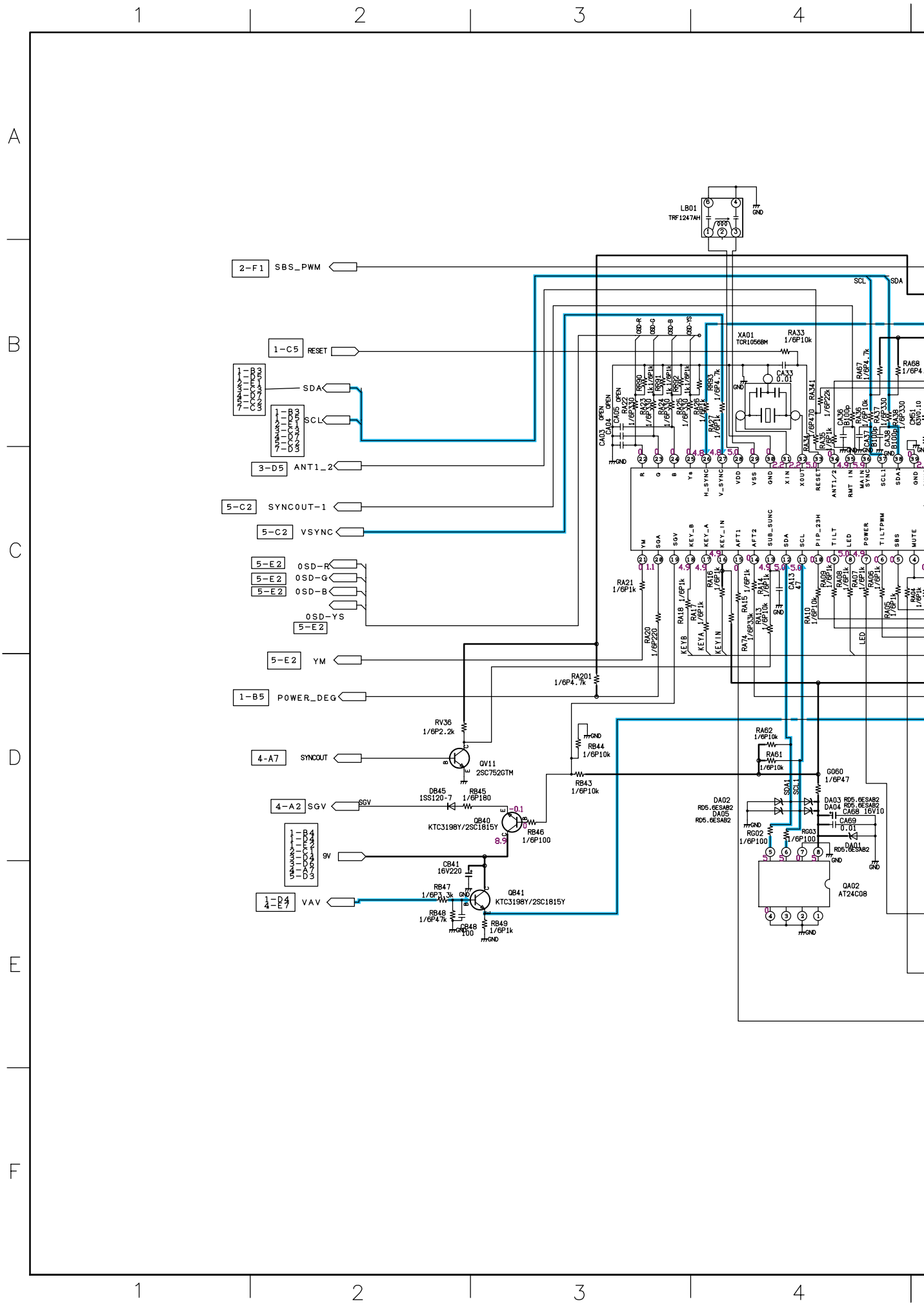

1-D5 FSC_1
GND
4-E7 YOUT
4-E7 COUT
GND
1-C7 HVcc
1-C7 AFC
5V2
7-D5 VD
6-C7 HD0UT
1-B7 BEND
1-C7 BLK
6-C2 SYNC0UT-1
1-C7 H. OUT
SCL
SDA
VSYNC
6-C2
0.3V(p-p)(H)
NOT USE (ALL MODEL)
R361 4.7k
R363 1/6P1M
R364 1/6P10k
R332 1/6P47k
D314 1SS133
D315 1SS133
Q360 2SC1815Y
1.7V(p-p)
5.2V(p-p)
DC=0
1V
1-C4 EWFB
1-B4 EW0UT
1-B4 V0UT
1-C5 VNFB
6-C2 OSD-R
6-C2 OSD-G
6-C2 OSD-B
6-C2 OSD-YS
6-D2 YM
9V
1-C4 VK-OUT
1-C7 ABL
COUT
Q503 KTC3198Y
R508 1/6P1k
R509 1/6P1k
R510 1/6P1k
R511 1/6P100
R456 1/6P10k
R407 1/6P10k
L409 10uH
C404 1u 50V
D430 RD12ESAB3
C430 0.01
C431 16V100
D411 RD6.2ESAB2
R404 OPEN
R403 6.2k
C415 DC50VM0.22
C406 OPEN
R503 100
R502 100
R433 1k
C499 B1000p
C405 OPEN
C201 D.92M110J
C337 2.2
D431 5.6V0.1u
R401 390
X401 TCR1023
SCL
SDA
dig GND
GND2
HD OUT
VD OUT
FBP IN
H OUT
SYNC OUT
DEF Vcc
SYNC IN
V SEP
AFC 1
32fH VCO
BEND CORRECT
DL-OUT
EHTV-IN
V.RAMP
V.AGC
V.AFB
V-OUT
EW-OUT
EWFB
V-SENTER
IK-IN
B FILTER
G FILTER
R FILTER
Vcc(9V)
B-OUT
G-OUT
C326 6.3V0.10
R360 100k
C325 0.068
R317 1k
B1000p
VOUT
EWOUT
EWFB
C220 DC50VM0.47
C510 16V100
C511 0.01
C407 25V 0.1
R337 OPEN
R323 OPEN
R333 OPEN
R328 680k
C322
C327 50V1.0
R315 390k
C457 3300PF
R457 100k
D313 OPEN
C315 OPEN
R314 0.6
D319 MTZJ12B
R335 OPEN
R324 OPEN
C408 50V0.022u
R458 100k
R316 1/6P150k
L502 4.7u
R368 1/4RF4.7
R369 1/6P390
D316 MTZJ6.8C
24617915E

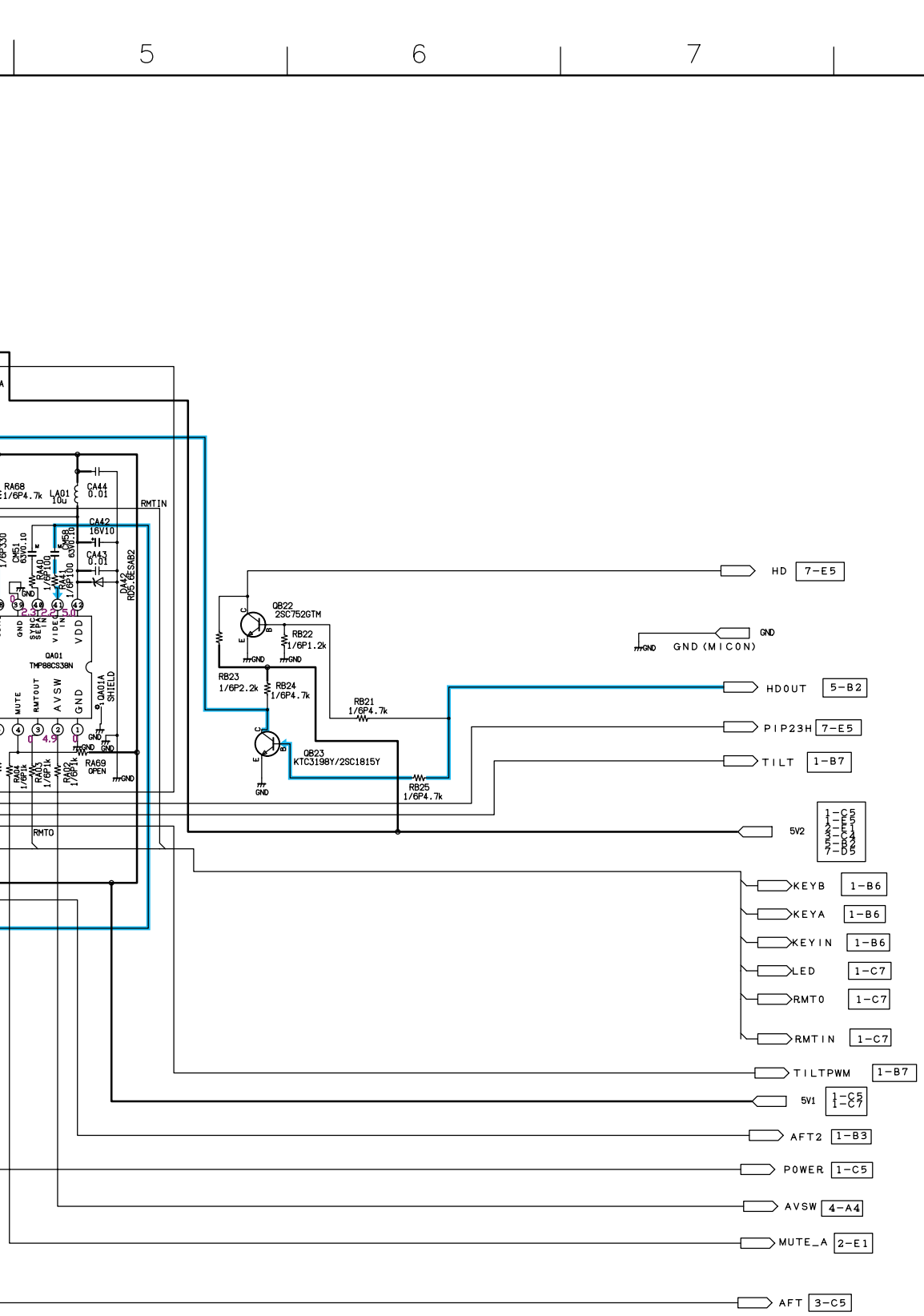


27AF62/27AF42
SIGNAL—VCD
[Sheet5/7]

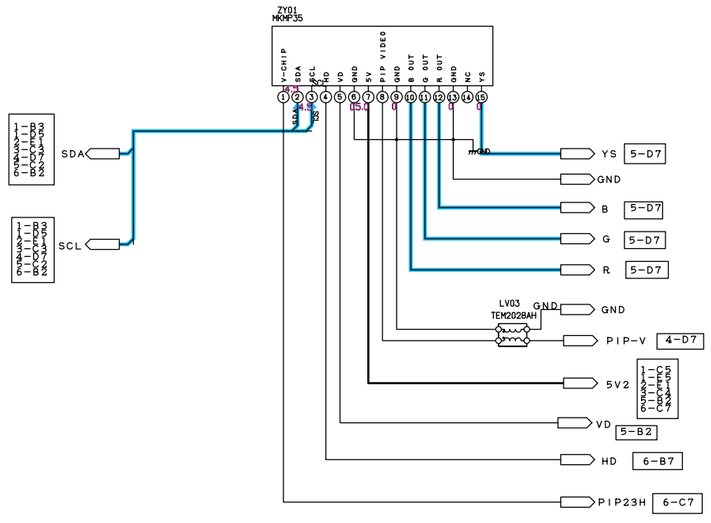


27AF62/27AF42
SIGNAL—MICON
[Sheet6/7]

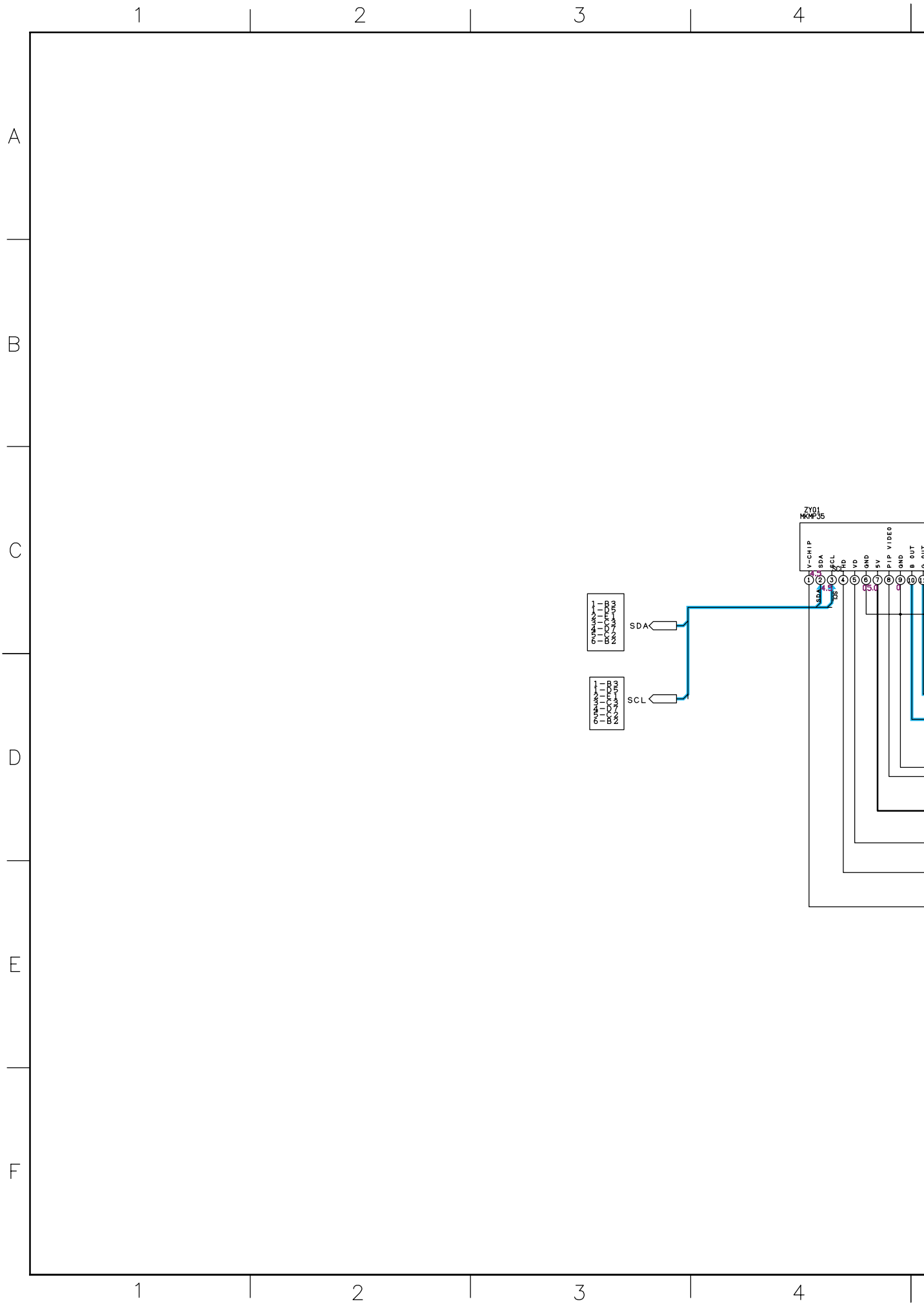

2-F1 SBS_PWM
1-C5 RESET
SDA
SCL
3-D5 ANT1_2
5-C2 SYNCOUT-1
5-C2 VSYNC
5-E2 OSD-R
5-E2 OSD-G
5-E2 OSD-B
OSD-YS
5-E2
5-E2 YM
1-B5 POWER_DEG
4-A7 SYNCOUT
4-A2 SGV
9V
1-D4 VAV
LB01 TRF1247AH
XA01 TCR1056BM
RA33 1/6P10k
CA33 0.01
RA201 1/6P4.7k
RV36 1/6P2.2k
QV11 2SC752GTM
DB45 1SS120-7
RB45 1/6P180
QB40 KTC3198Y/2SC1815Y
RB46 1/6P100
CB41 16V220
RB47 1/6P3.3k
QB41 KTC3198Y/2SC1815Y
RB48 1/6P47k
CB48 100
RB49 1/6P1k
RB44 1/6P10k
RB43 1/6P10k
RA62 1/6P10k
RA61 1/6P10k
G060 1/6P47
DA02 RD5.6ESAB2
DA05 RD5.6ESAB2
DA03 RD5.6ESAB2
DA04 RD5.6ESAB2
CA68 16V10
CA69 0.01
RG02 1/6P100
RG03 1/6P100
DA01 RD5.6ESAB2
QA02 AT24C08
RA21 1/6P1k
RA20 1/6P220
RA18 1/6P1k
RA17 1/6P1k
RA16 1/6P1k
RA15 1/6P1k
RA14 1/6P1k
RA13 1/6P10k
RA10 1/6P10k
RA09 1/6P1k
RA08 1/6P1k
RA07 1/6P1k
RA06 1/6P1k
RA05 1/6P1k
RA04 1/6P1k
CA13 47
CA14 33
RA74 1/6P33k
RA67 1/6P4.7k
RA68 1/6P4.7k
RA341 1/6P22k
RA34 1/6P470
RA35 1/6P1k
RA36 1/6P10k
RA37 1/6P330
RA38 1/6P330
CA36 B100p
CA37 B100p
CA38 B100p
CM61 6MHz10
SCL
SDA
KEYB
KEYA
KEYIN
LED

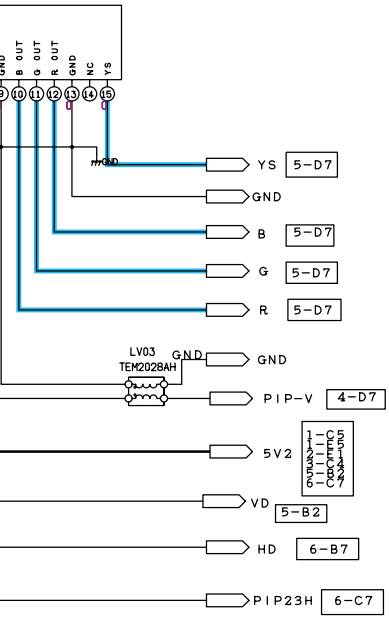


27AF62/27AF42
SIGNAL—MICON
[Sheet6/7]



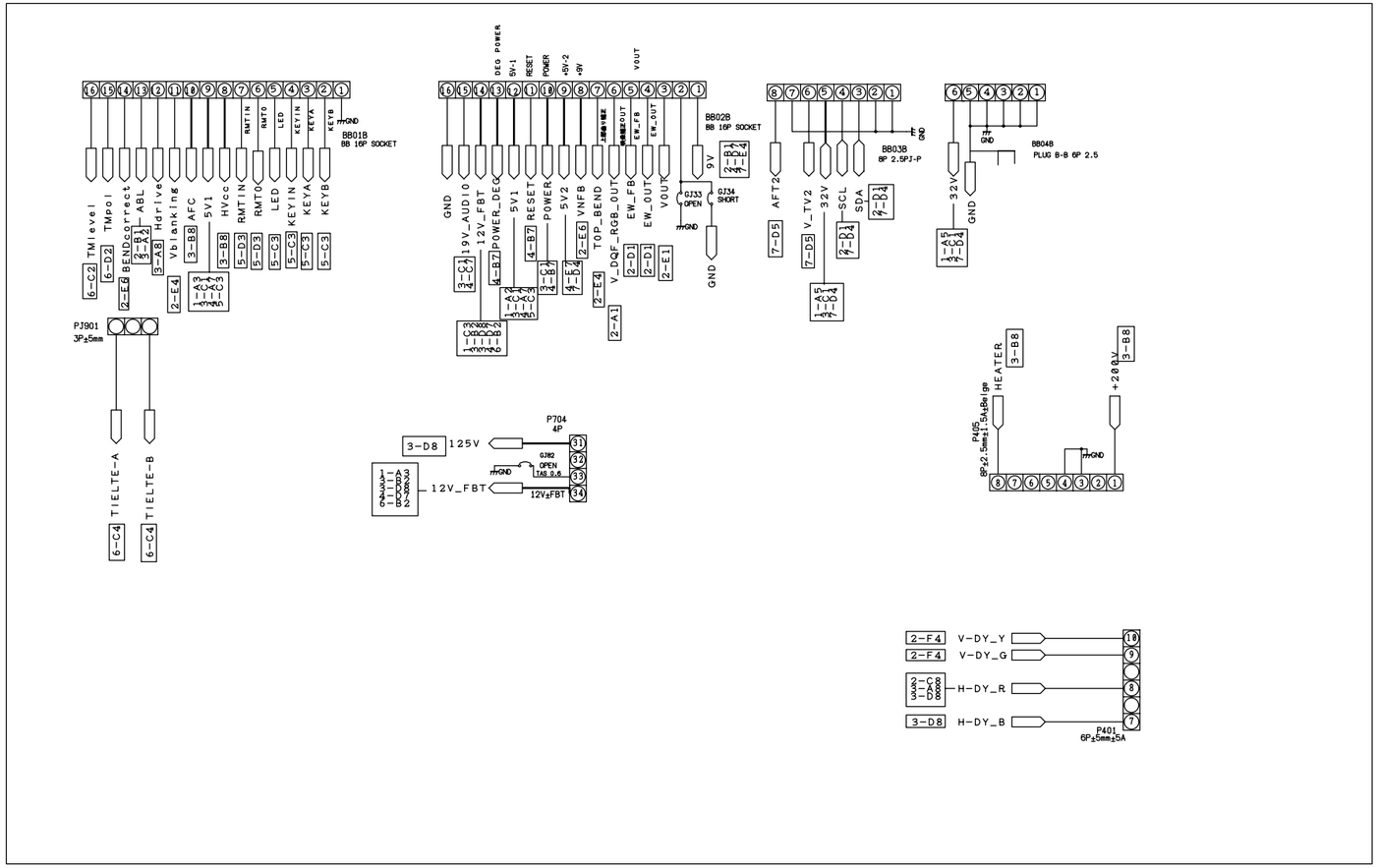
27AF62/27AF42
SIGNAL—MW
[Sheet 7/7]


ZY01
MKMP35
V-CHIP
SDA
SCL
GND
VD
GND
5V
PIP VIDEO
GND
B OUT
SDA
SCL
SDA
SCL



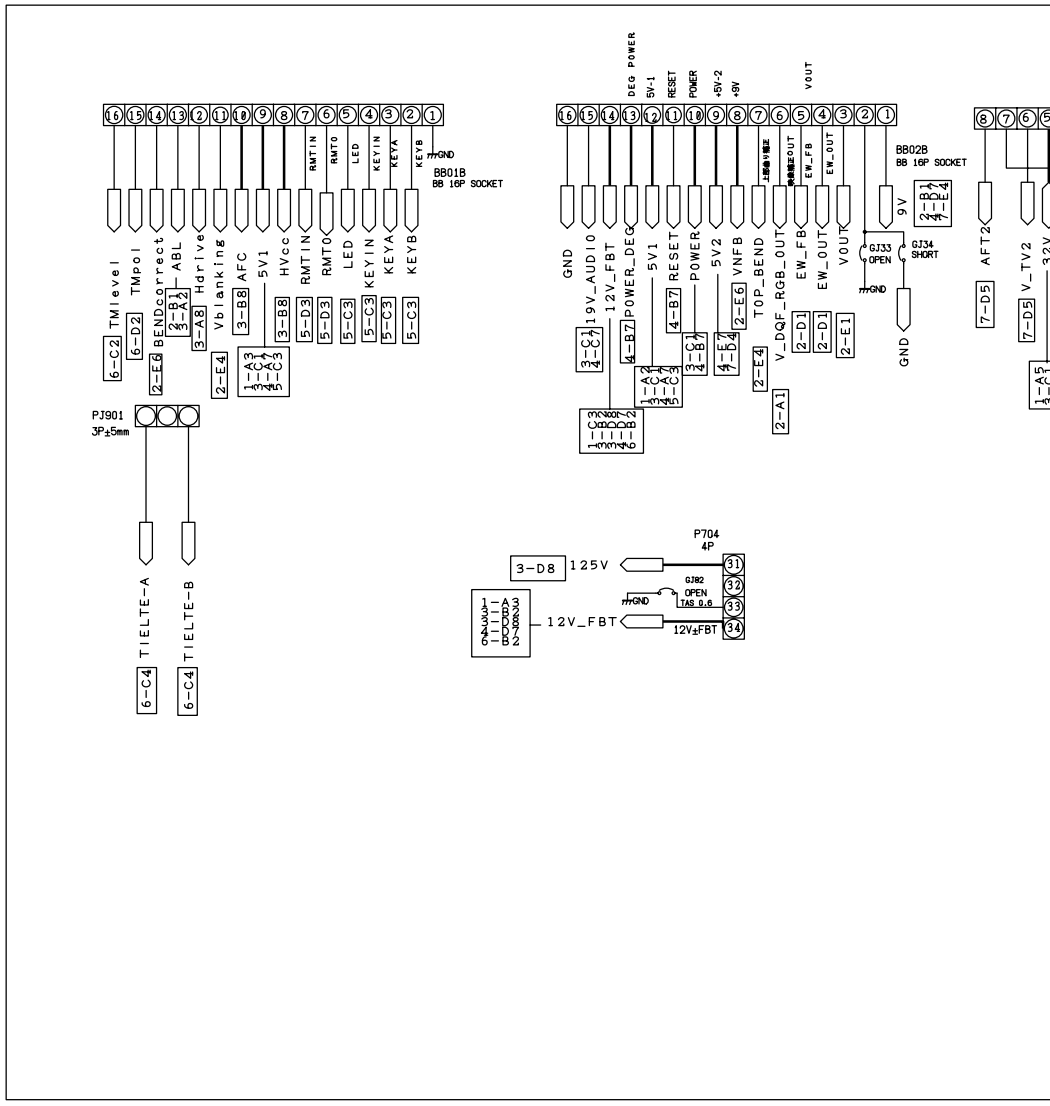
27AF62/27AF42
SIGNAL—MW
[Sheet 7/7]

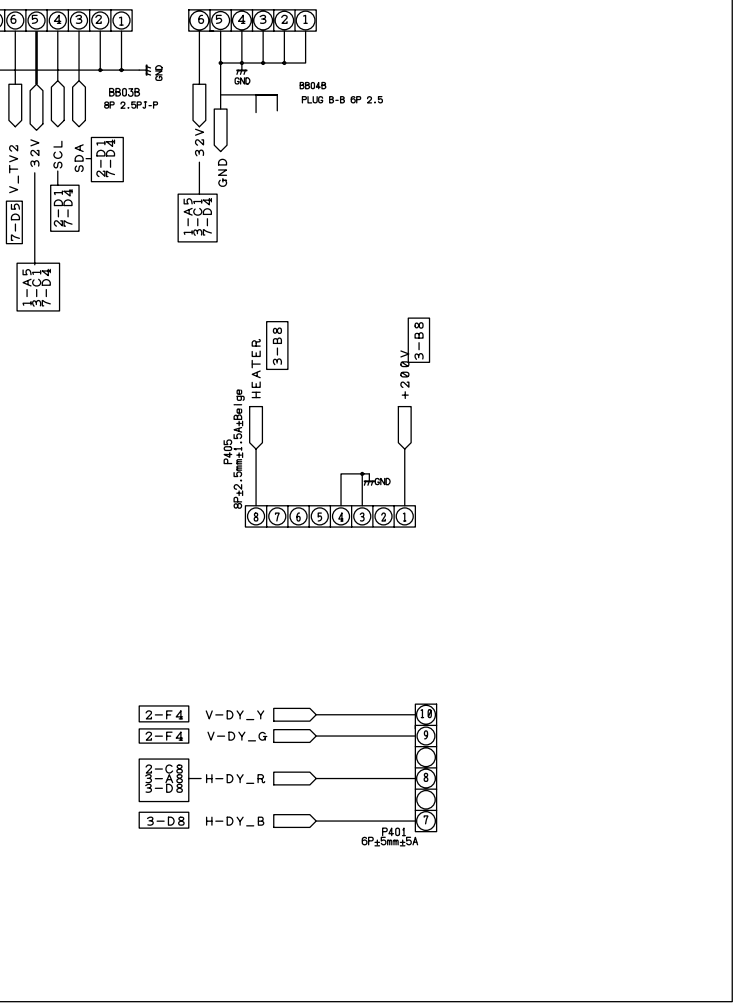
27AF62:PD0653A
27AF42:PD0653B　32A62:PD0701A



27AF62/27AF42
POWER/DEF—BANKAN
[Sheet 1/7]

27AF62:PD0653A
27AF42:PD0653B 32A62:PD0701A





27AF62/27AF42
POWER/DEF—BANKAN
[Sheet 1/7]

1-A4 V_DQF_RGB_OUT

1-A2 3-A2 ABL

1-A4 4-D7 7-E4 9V

3-B1 DPCOUT

1-A4 EW_OUT

1-A4 EW_FB

GND

1-B5 1-B4 SDA

1-B5 1-B4 SCL

1-A4 V0UT

NOT USED (ALL MODEL)

NOT USED (ALL MODEL)

NOT USED (FST/FLAT27V)

Q462 KTA1226Y/2SA1015Y

Q463 2SD2493(P)

Q463A Q463A

Q470 2SC1740S

Q483 0.6

GJ06 0.6 TAS 0.6

Q307 OPEN

Q308 2SC1815Y

Q308 2SA1015Y

Q390 TA75558S

Q391 2SA1085A

Q301 LA7846N (LA7833S/TA8427K)

Q303 SC570A

Q300 2SC1815Y

D302 TA1241AN

Vref EHT EW NC VIN BLKout EWFB VCC VFB GND VD LVPin DACh LVP out AGC RAMP TC VIN DACdf CENT out DACv NC SCL SDA GND

D335 MTZJ11A

D336 MTZJ5.6B

D337 MTZJ5.6B

D338 MTZJ3.0B

D387 MTZJ9.1A

D395 MTZJ15B

D360 KETSU

D361 KETSU

D307 KETSU

D310 1SS133

D301 ERB44-06

D308 ERB44-06

D309 ERB12-02

L301 TEM2011Y

L302 100u

R480 22k

R483 22k

R451 16V10

R450 1/6P10k

R367 SHORT

R365 1/6P680

R362 1/6P10k

R3368 1/6P33k

R3364 OPEN

R3363 OPEN

R366 430

R3361 1/6P1.5k

R307 1/6P1.5k

R320 1/6P100

R319 1/6P100

R316 1/6P100

R4311 1/6P56k

R329 1/6P15k

R330 1/6P1k

R331 1/6P180k

R332 1/6P2k

R3328 1/6P2k

R3303 1/6P270k

R326 1/6P10k

R4306 1/6P330

R4772 1/6P330k

R4767 1/6P2.2k

R4762 1/6P3.3k

R4770 1/6P3.9k

R4760 1/6P3.9k

R4761 1/6P1k

R4765 1/6P220

R4771 1/6P10k

R4310 1/6P10k

R3332 1/6P10k

R4468 1/6P4.7k

R4470 1/6P39k

R4469 1/6P1k

R4467 1/6P10k

R4466 1/6P10k

R3322 1/6P390k

R4385 1/6P1k

R3326 1/6P100

R3327 16V470

R3319 50V0.10u

R4311 1/6P56k

R3332 1/6P10k

R3368 1/6P33k

R3369 1/6P100

R3360 16V470

R3440 1R1.2

R3441 1/2W10k

R3442 1/2W10k

R3443 1/2W56k

R3444 1/2W68k

R3445 1/2W56k

R379 1R10k

R380 1/2W22k

R369 1/6P4.7k

R399 1/6P10k

R388 1/6P1k

R394 1/6P1k

R390 1/6P5.6k

R392 1/2R10k

R397 1/6P10k

R395 1/6P3.9k

R396 1/6P10k

R398 1/6P10k

R393 16V10

R391 16V10

R3301 OPEN

R302 1/6P2.2k

R3314 OPEN

R3315 1/6P4.7k

R312 1/6P15k

R313 1/6P15k

R305 1R0.82

R304 1/6P62k

R307 1/6P680k

R306 1/6P68k

R321 OPEN

R309 OPEN

R3317 OPEN

R325 OPEN

R336 2R220

R345 1R1k

R413 OPEN

R311 1/6P3.3k

R308 1R270

C300 63V0.10

C301 500V560

C309 50V1000u

C3301 50V0.47

C3302 50V0.47

C3322 50V2.2

C3325 50V0.020u

C3326 B1000p

C400 63V0.10

C318 16V470

C314 OPEN

C315 OPEN

C313 100V0.22u

C311 OPEN

C312 63V0.056

C304 100V0.047u

C305 50V1.0 24617915E

C306 25V3300

C307 50V100u

C308 50V220

C320 50V100

C324 50V0.047

C3360 16V470

C362 OPEN

C365 OPEN

C366 100V0.15u

C3440 1250VH1100p

C396 1800VH1800p

C399 16V10u

C391 16V10

C393 16V10

C394 63V0.10

C3322 50V0.22

D478 MTZJ22B

D4385 MTZJ7.5A

D4386 1SS133

D477 1SS133

D335 MTZJ11A

D3440 1SI832

D3441 1SI832

D390 MTZJ2.4B

D395 MTZJ15B

G112

G135 SHORT

G131 SHORT

G115 SHORT

GJ17 SHORT

GJ20 SHORT

GJ51 SHORT

GJ56 SHORT

GJ50 SHORT

GJ39 SHORT

GJ37 OPEN

GJ38 SHORT

G306 OPEN

G353 OPEN

G3369 1/6P100

G3360 16V470

G3361 50V0.47

G3362 50V0.47

G3326 B1000p

G3325 50V0.020u

G4462 2SC1815-Y

G4463 50V0.22

G4469 1/6P1k

G4467 1/6P10k

G4466 1/6P10k

G4468 1/6P4.7k

G3301A

G3306

G3307

G3308

G3309

G3310

G3311

G3312

G3313

G3314

G3315

G3316

G3317

G3318

G3319

G3320

G3321

G3322

G3323

G3324

G3325

G3326

G3327

G3328

G3329

G3330

G3331

G3332

G3333

G3334

G3335

G3336

G3337

G3338

G3339

G3340

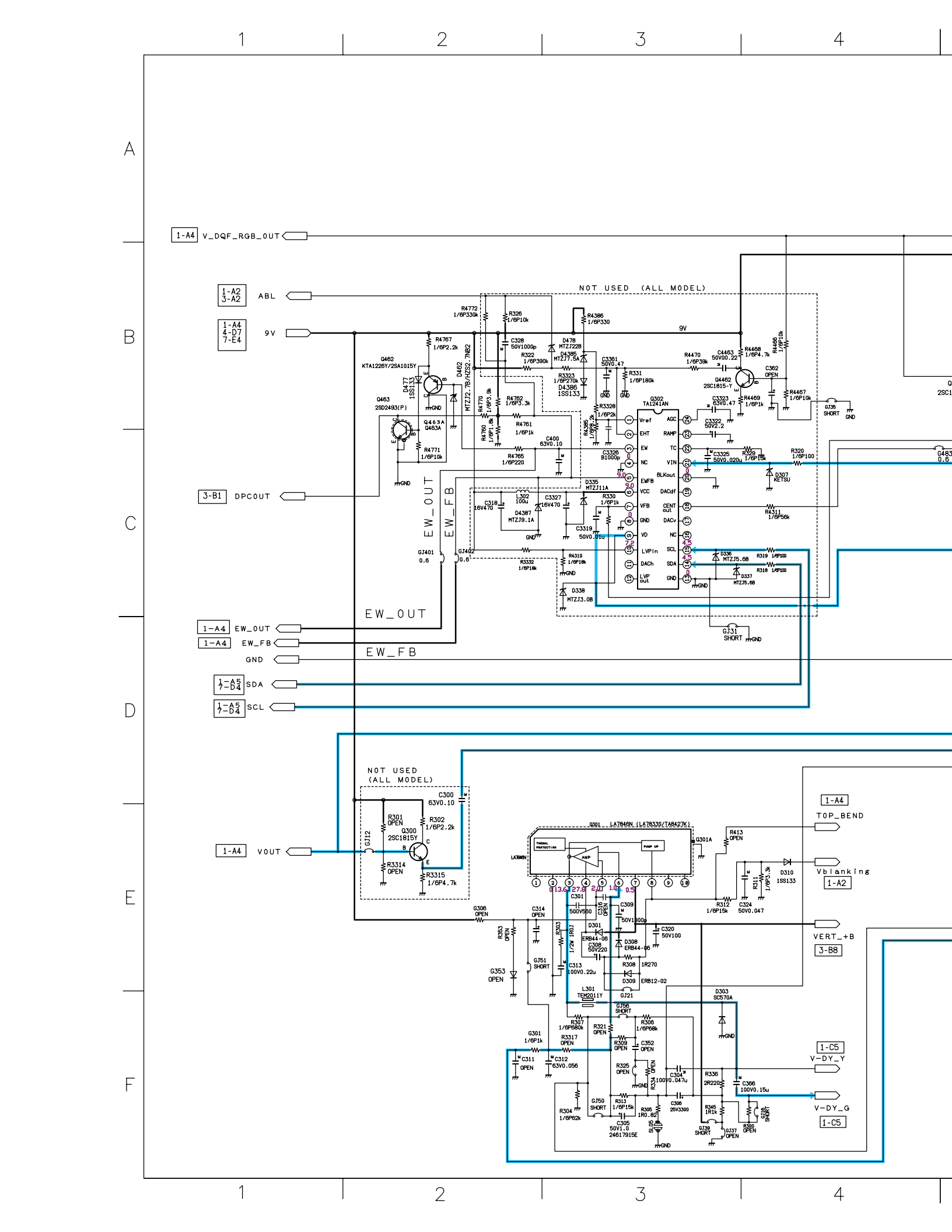
G3341

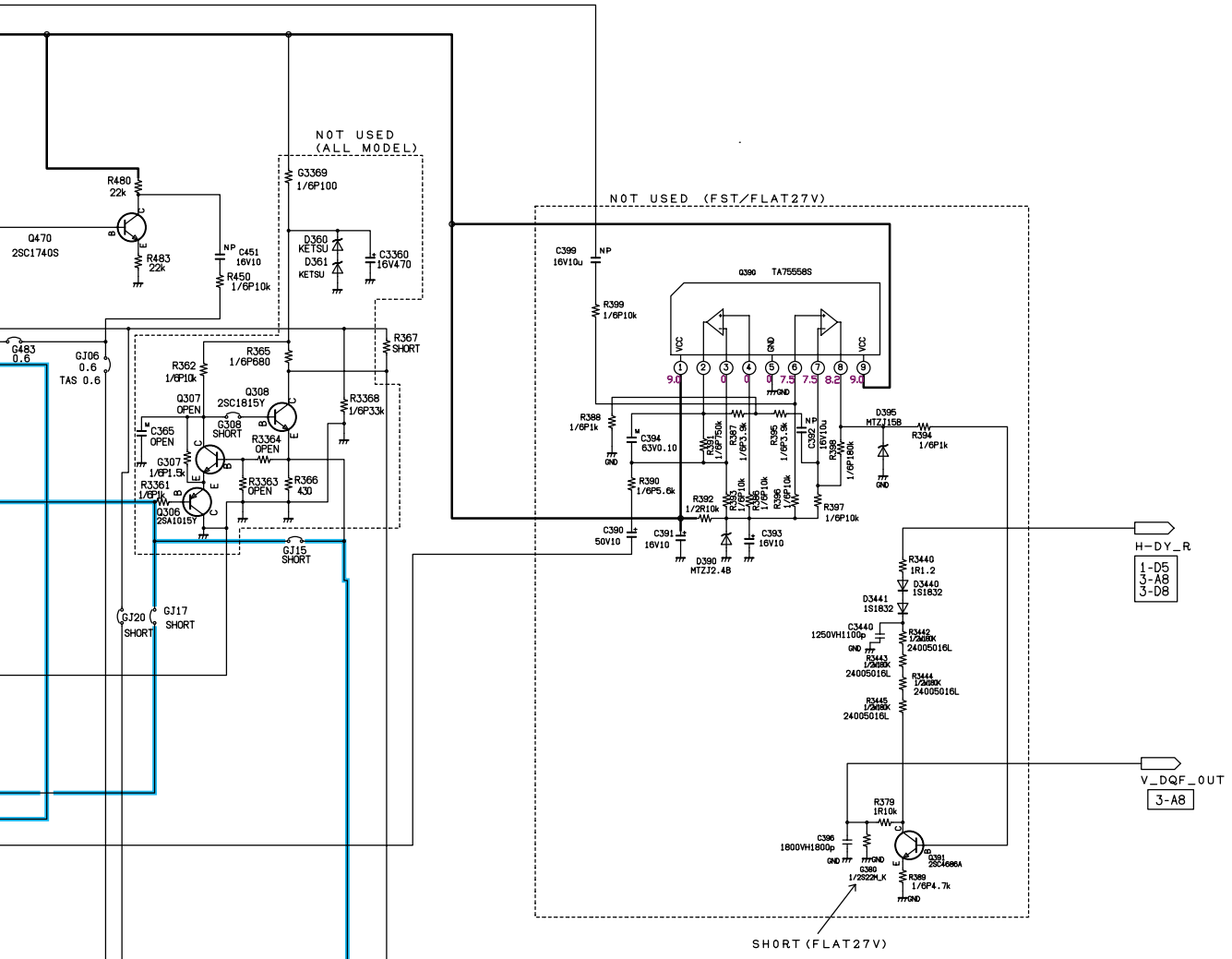
G3342

G3343

G3344

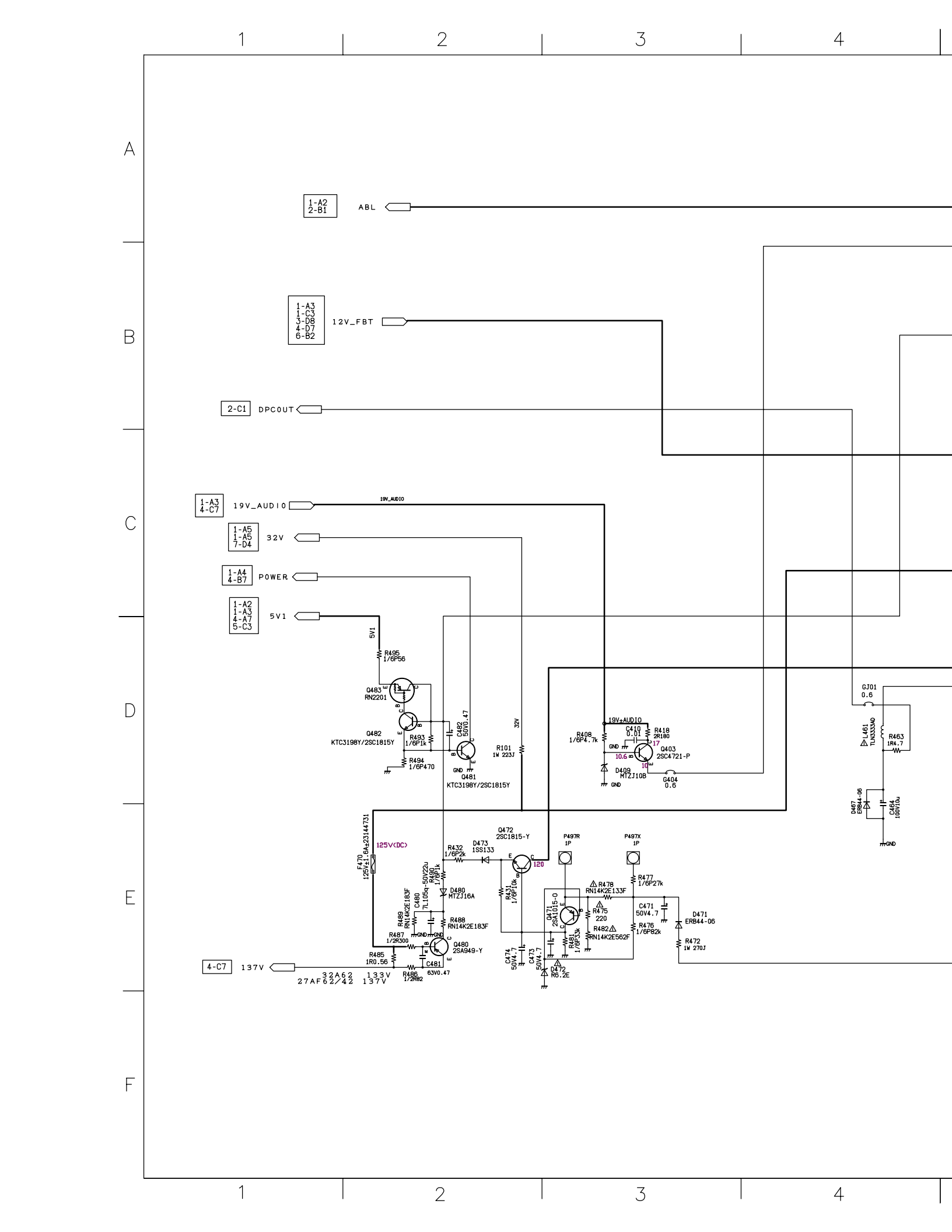
G3345

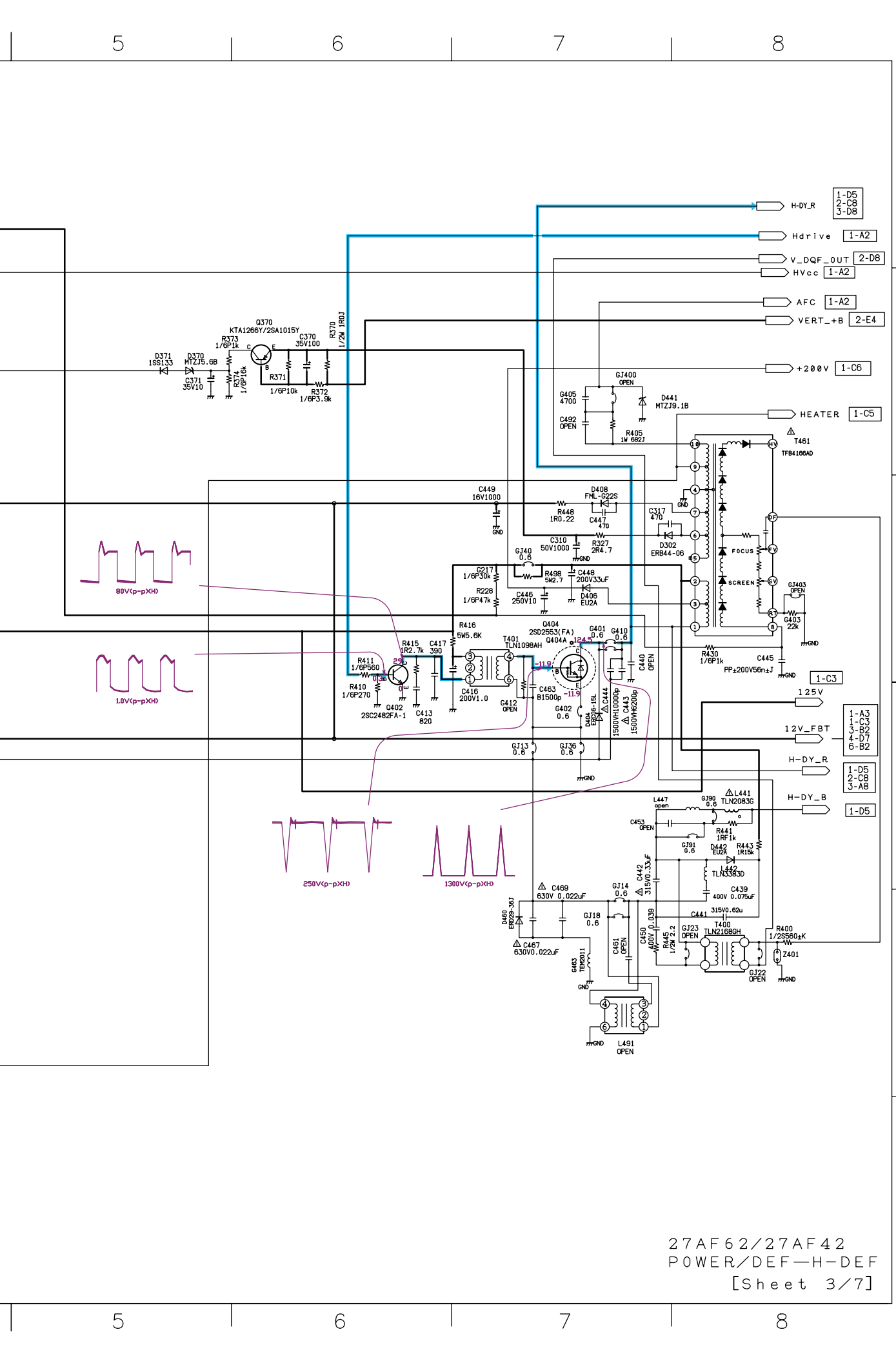

1-A4 V_DQF_RGB_OUT
1-A2 3-A2 ABL
1-A4 4-D7 7-E4 9V
3-B1 DPCOUT
1-A4 EW_OUT
1-A4 EW_FB
GND
1-A5 7-D4 SDA
1-A5 7-D4 SCL
1-A4 VOUT
NOT USED (ALL MODEL)
NOT USED (ALL MODEL)
EW_OUT
EW_FB
EW_OUT
EW_FB
9V
Q302 TA1241AN
Vref
EHT
EW
NC
VCC
VFB
GND
VD
LVPIn
DACh
LVP out
AGC
RAMP
TC
VIN
BLKout
EWFB
DACdf
CENT out
DACv
NC
SCL
SDA
GND
Q391 LA7846N (LA7833S/TA8427K)
THERMAL PROTECTION
PUMP UP
AMP
LA7846N
Q301A
1-A4
TOP_BEND
Vblanking
1-A2
VERT_+B
3-B8
1-C5
V-DY_Y
V-DY_G
1-C5



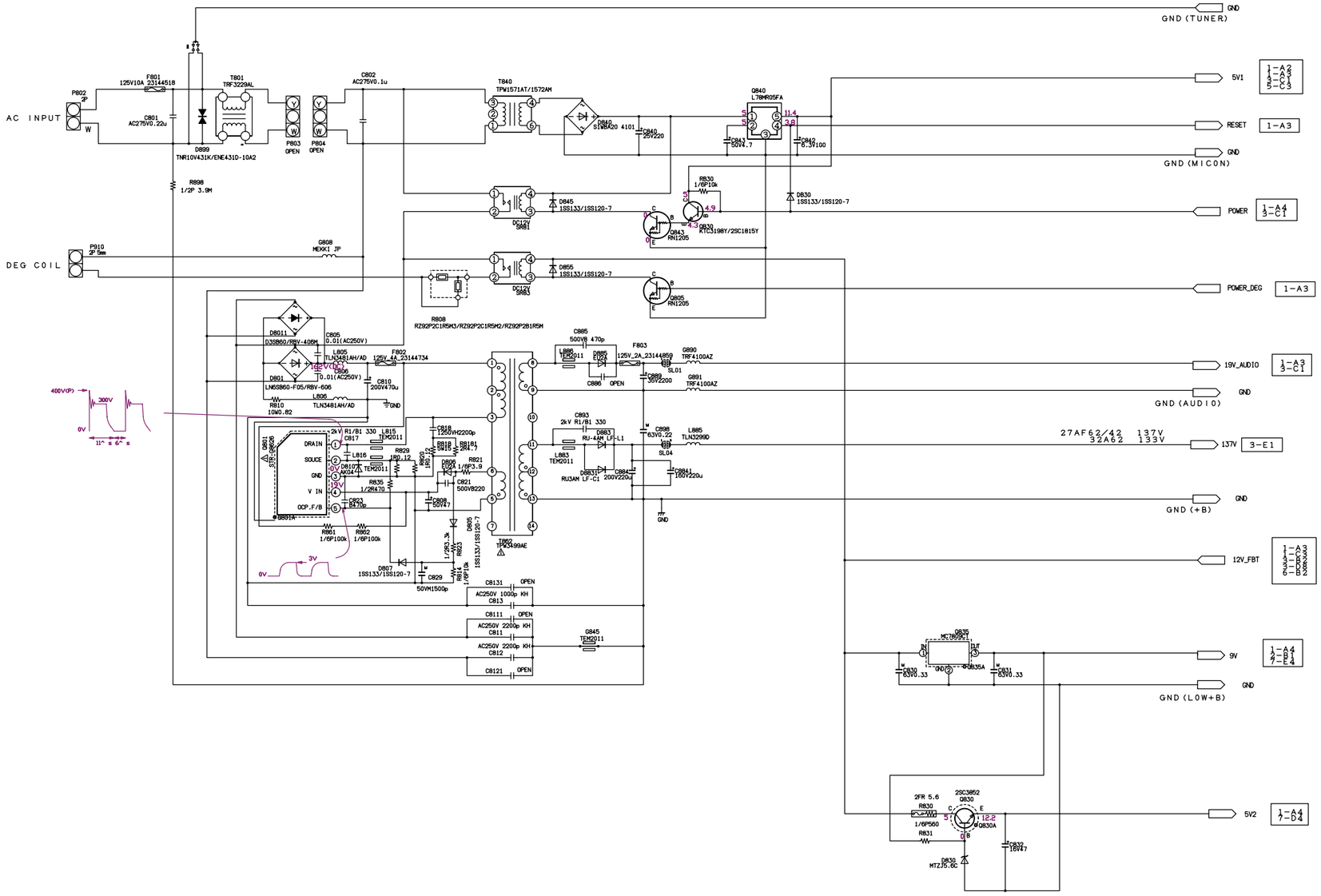
27AF62/27AF42
POWER/DEF—V-DEF_DPC
[Sheet 2/7]

ABL
12V_FBT
DPCOUT
19V_AUDIO
32V
POWER
5V1
137V
H-DY_R
Hdrive
V_DQF_OUT
HVcc
AFC
VERT_+B
+200V
HEATER
125V
H-DY_B
Focus
SCREEN
T461 TFB4166AD
T401 TLN1098AH
T400 TLN2168GH
L441 TLN2083G
L447 TLN3383D
Z401
Q370 KTA1266Y/2SA1015Y
Q402 2SC2482FA-1
Q403 2SC4721-P
Q404 2SD2653(FA)
Q472 2SC1815-Y
Q480 2SA949-Y
Q481 KTC3198Y/2SC1815Y
Q482 KTC3198Y/2SC1815Y
Q483 RN2201
80V(p-p)XH
10V(p-p)XH
250V(p-p)XH
1300V(p-p)XH
125V(DC)
137V
32A62
27AF62/42
27AF62/42
POWER/DEF—H-DEF
[Sheet 3/7]

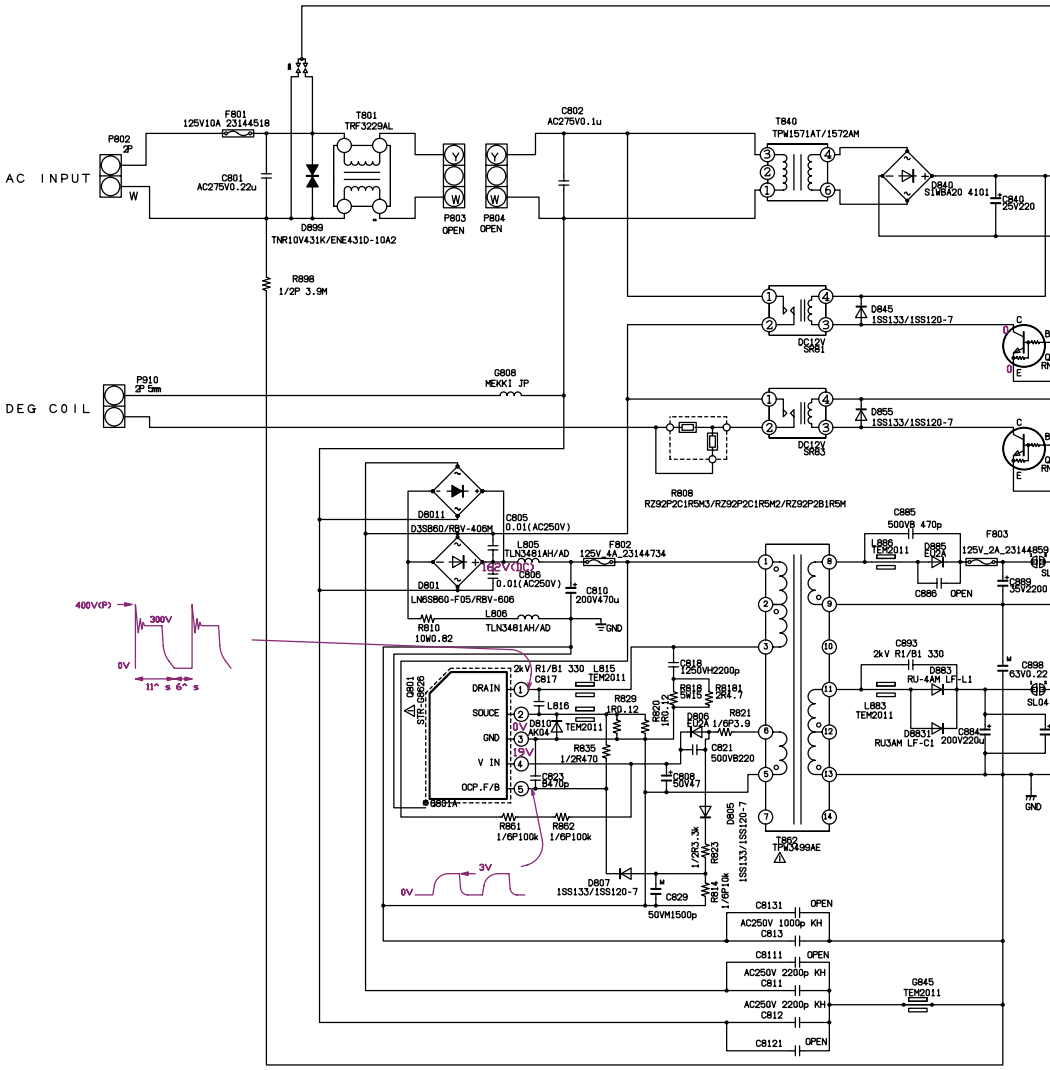

1-A2
2-B1
ABL
1-A3
1-C3
3-D8
4-D7
6-B2
12V_FBT
2-C1
DPCOUT
1-A3
4-C7
19V_AUDIO
19V_AUDIO
1-A5
1-A5
7-D4
32V
1-A4
4-B7
POWER
1-A2
1-A3
4-A7
5-C3
5V1
5V1
R495
1/6P56
Q483
RN2201
Q482
KTC3198Y/2SC1815Y
R493
1/6P1k
R494
1/6P470
C482
50V0.47
GND
Q481
KTC3198Y/2SC1815Y
R101
1W 223J
32V
19V+AUDIO
R408
1/6P4.7k
C410
0.01
R418
2R180
GND
17
10.6
Q403
2SC4721-P
10
D409
MTZJ10B
GND
G404
0.6
GJ01
0.6
L461
TLN3334D
R463
1R4.7
D467
ERB44-06
C464
100/10u
GND
F470
125V4.16A
125V(DC)
Q472
2SC1815-Y
R432
1/6P2k
D473
1SS133
120
P497R
1P
P497X
1P
R478
RN14K2E133F
R477
1/6P27k
R490
1/6P1k
D480
MTZJ16A
C480
7L105Q-50V22u
R489
RN14K2E183F
R488
RN14K2E183F
R487
1/2R300
GND
GND
Q480
2SA949-Y
R485
1R0.56
C481
63V0.47
R486
1/2R82
4-C7
137V
32A62
27AF62/42
133V
137V
R431
1/6P10k
Q471
2SA1015-O
R475
220
R482
RN14K2E562F
R481
1/6P33k
C471
50V4.7
R476
1/6P82k
D471
ERB44-06
R472
1W 270J
C474
50V4.7
C473
50V4.7
D472
R6.2E

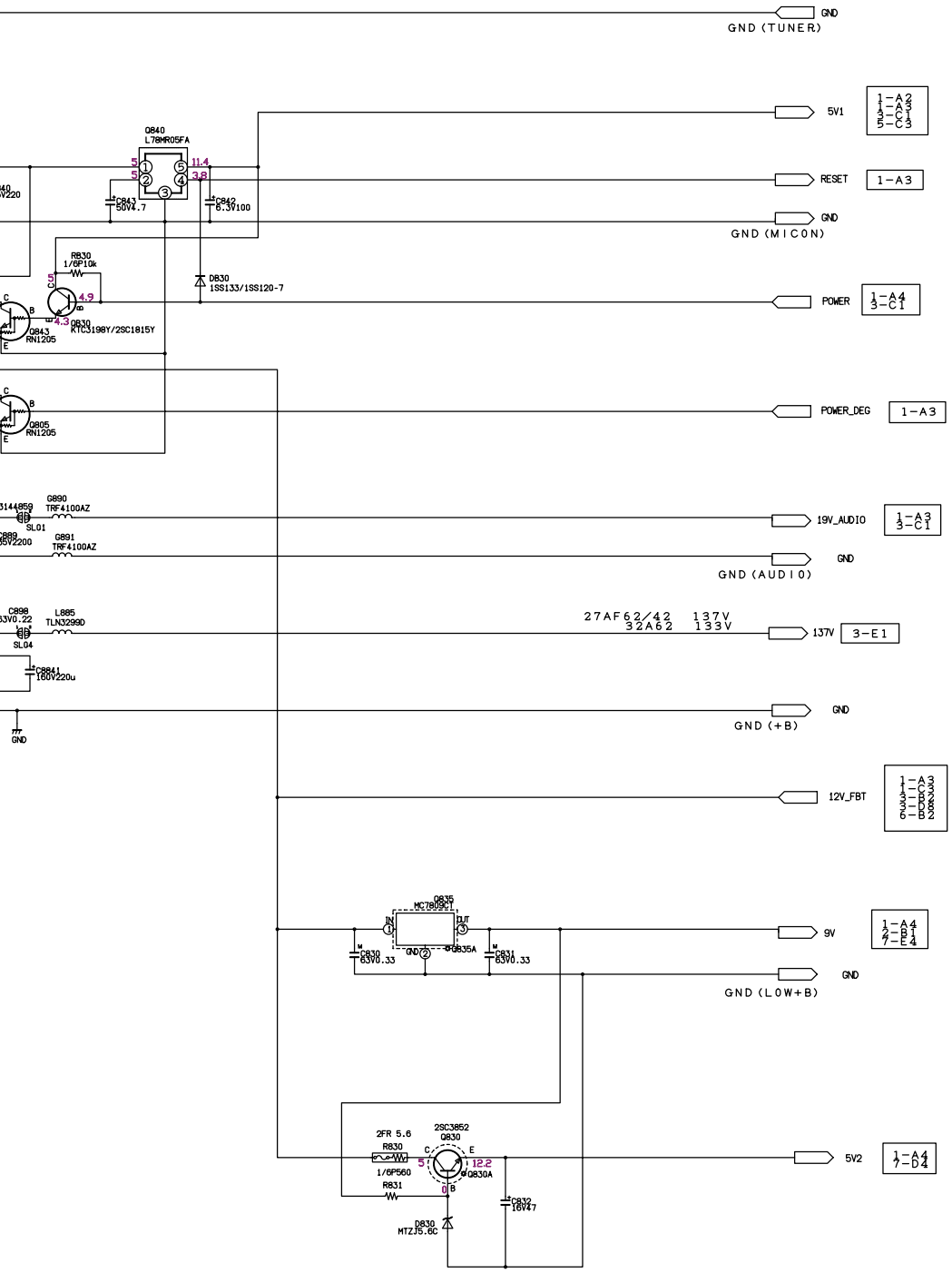


27AF62/27AF42
POWER/DEF—H-DEF
[Sheet 3/7]

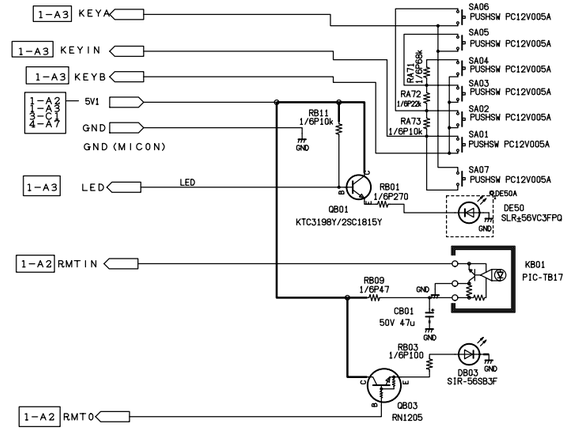


27AF62/27AF42
POWER/DEF—POWER
[Sheet 4/7]

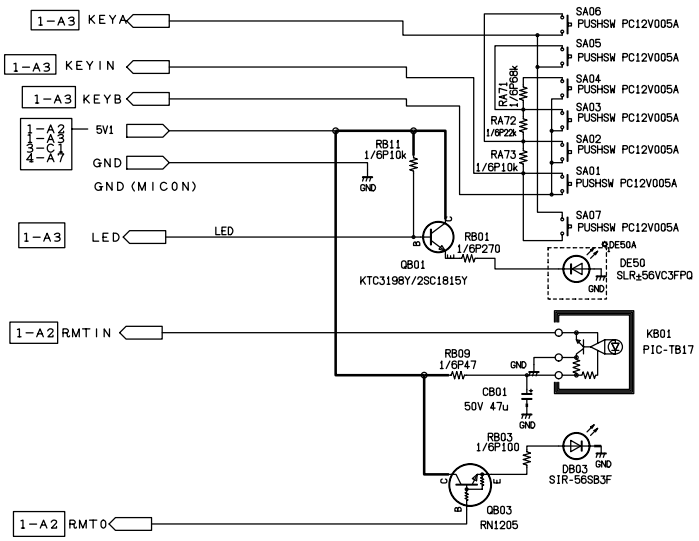

AC INPUT
P802
2P
W
F801
125V10A 23144518
C801
AC275V0.22u
T801
TRF3229AL
D899
TNR10V431K/ENE431D-10A2
P803
OPEN
P804
OPEN
C802
AC275V0.1u
T840
TPW1571AT/1572AM
D840
SIWBA20 4101
C840
25V220
R898
1/2P 3.9M
D845
1SS133/1SS120-7
DC12V
SR81
DEG COIL
P910
2P 5mm
G808
MEKKI JP
DC12V
SR83
D855
1SS133/1SS120-7
R808
RZ92P2C1R5M3/RZ92P2C1R5M2/RZ92P2B1R5M
D8011
D3SB60/RBV-406M
C805
0.01(AC250V)
D801
LN6SB60-F05/RBV-606
D806
0.01(AC250V)
C810
200V470u
L805
TLN3481AH/AD
L806
TLN3481AH/AD
GND
F802
125V_4A_23144734
R810
10W0.82
400V(P)
300V
0V
11^ s 6^ s
162V(DC)
C885
500VB 470p
L886
TEM2011
D885
C886
OPEN
F803
125V_2A_23144859
C889
35V2200
C893
2kV R1/B1 330
L883
TEM2011
D883
RU-4AM LF-L1
D8831
RU3AM LF-C1
C884
200V220u
C898
63V0.22
SL04
T802
TPW3499AE
C818
1250VH2200p
R818
5W1.5
R8181
2W4.7
R820
1R0
R821
1/6P3.9
D808
E1ZA
C821
500VB220
C809
50V47
R829
1R0.12
L816
TEM2011
D810
AK04
R835
1/2R470
C823
B470p
C817
L815
TEM2011
R861
1/6P100k
R862
1/6P100k
D807
1SS133/1SS120-7
C829
50VM1500p
D805
1SS133/1SS120-7
R823
1/2R3.3k
R814
1/6P10k
3V
0V
C8131
OPEN
AC250V 1000p KH
C813
C8111
OPEN
AC250V 2200p KH
C811
AC250V 2200p KH
C812
C8121
OPEN
G845
TEM2011
G801
STR-G6626
DRAIN
SOUCE
GND
V IN
OCP.F/B
G801A
2kV R1/B1 330
C817
L815
TEM2011



27AF62/27AF42
POWER/DEF—POWER
[Sheet 4/7]



27AF62/27AF42
POWER-DEF—KYE-LED
[Sheet5/7]


1-A3 KEYA
1-A3 KEYIN
1-A3 KEYB
1-A2
1-A3
3-C1
4-A7
5V1
GND
GND (MICON)
1-A3 LED
LED
1-A2 RMTIN
1-A2 RMT0
SA06 PUSHSW PC12V005A
SA05 PUSHSW PC12V005A
SA04 PUSHSW PC12V005A
SA03 PUSHSW PC12V005A
SA02 PUSHSW PC12V005A
SA01 PUSHSW PC12V005A
SA07 PUSHSW PC12V005A
RA71 1/6P66k
RA72 1/6P22k
RA73 1/6P10k
RB11 1/6P10k
RB01 1/6P270
QB01 KTC3198Y/2SC1815Y
RDE50A
DE50 SLR-56VC3FPQ
KB01 PIC-TB17
RB09 1/6P47
CB01 50V 47u
RB03 1/6P100
DB03 SIR-56SB3F
QB03 RN1205

A

B

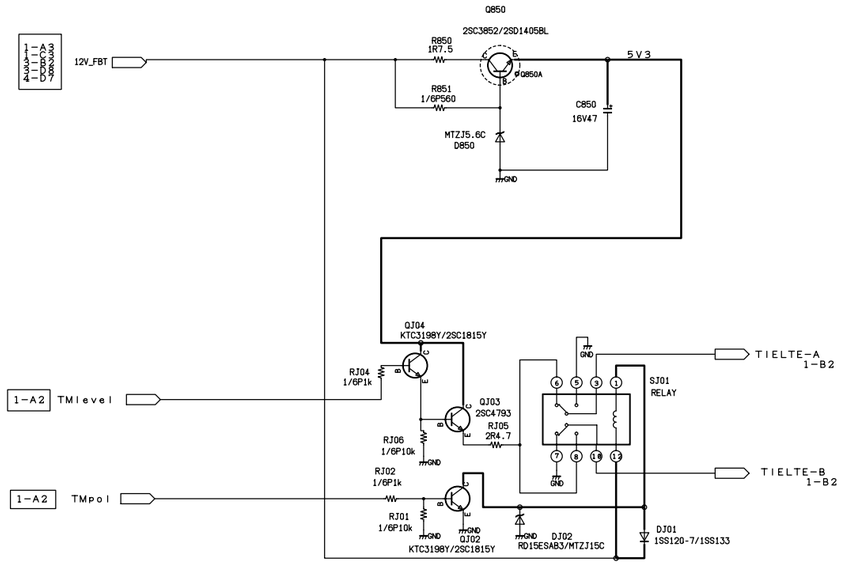
C

D

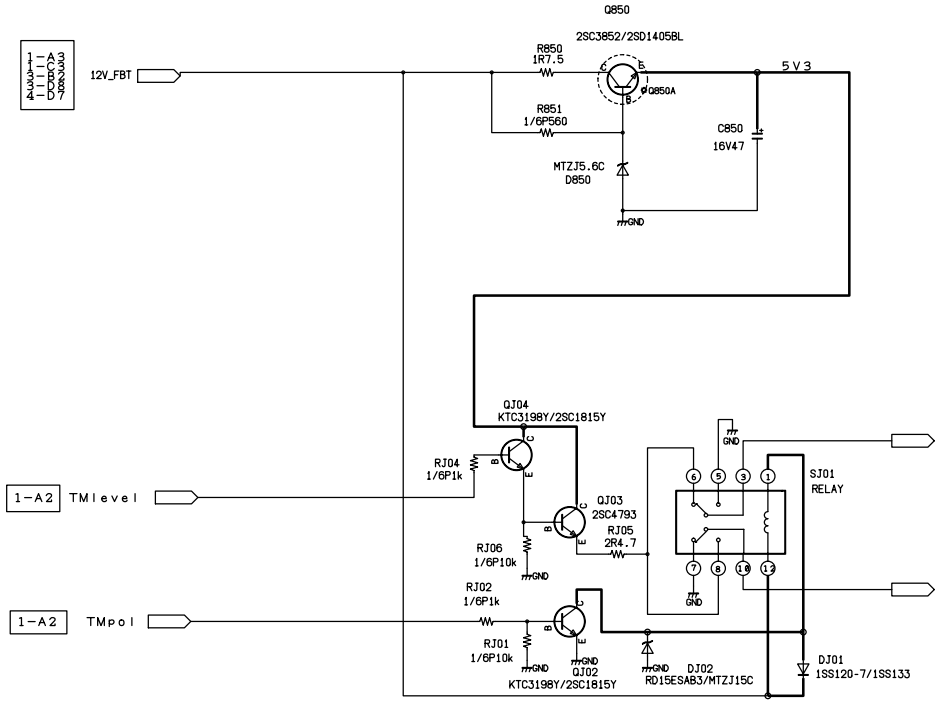
E

F

27AF62/27AF42
POWER-DEF—KYE-LED
[Sheet5/7]



32A62 NOT USE



32A62 NOT USE

5 6 7 8

A

B

C

D

E

F

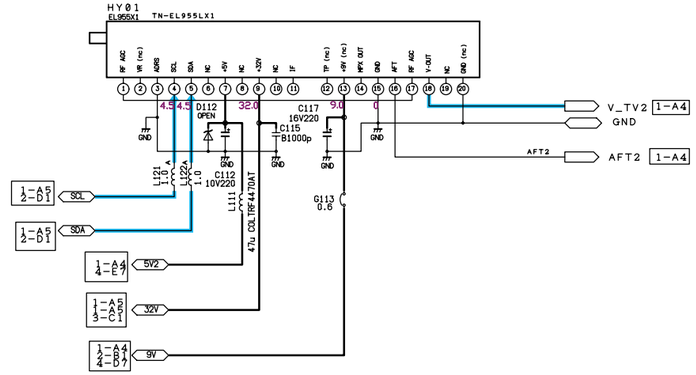
TIELTE-A
1-B2

TIELTE-B
1-B2

3

27AF62/27AF42
POWER-DEF—TILT
[Sheet 6/7]

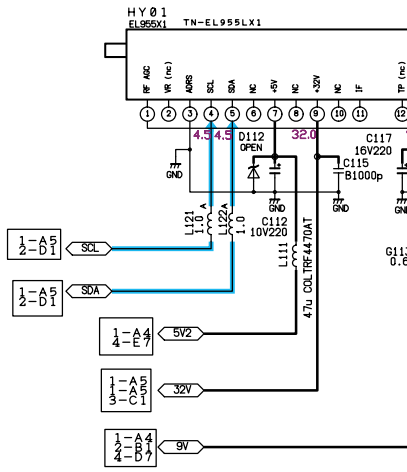
5 6 7 8

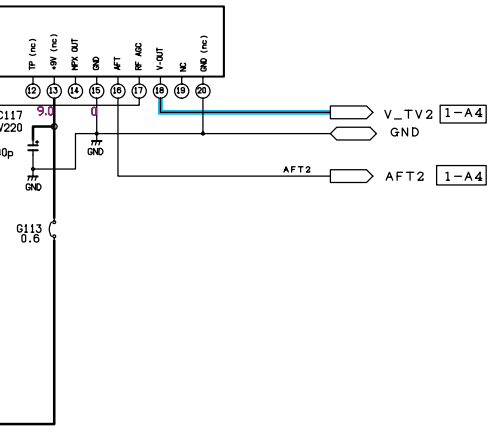


27AF62/27AF42

POWER/DEF—SUB—TUNER

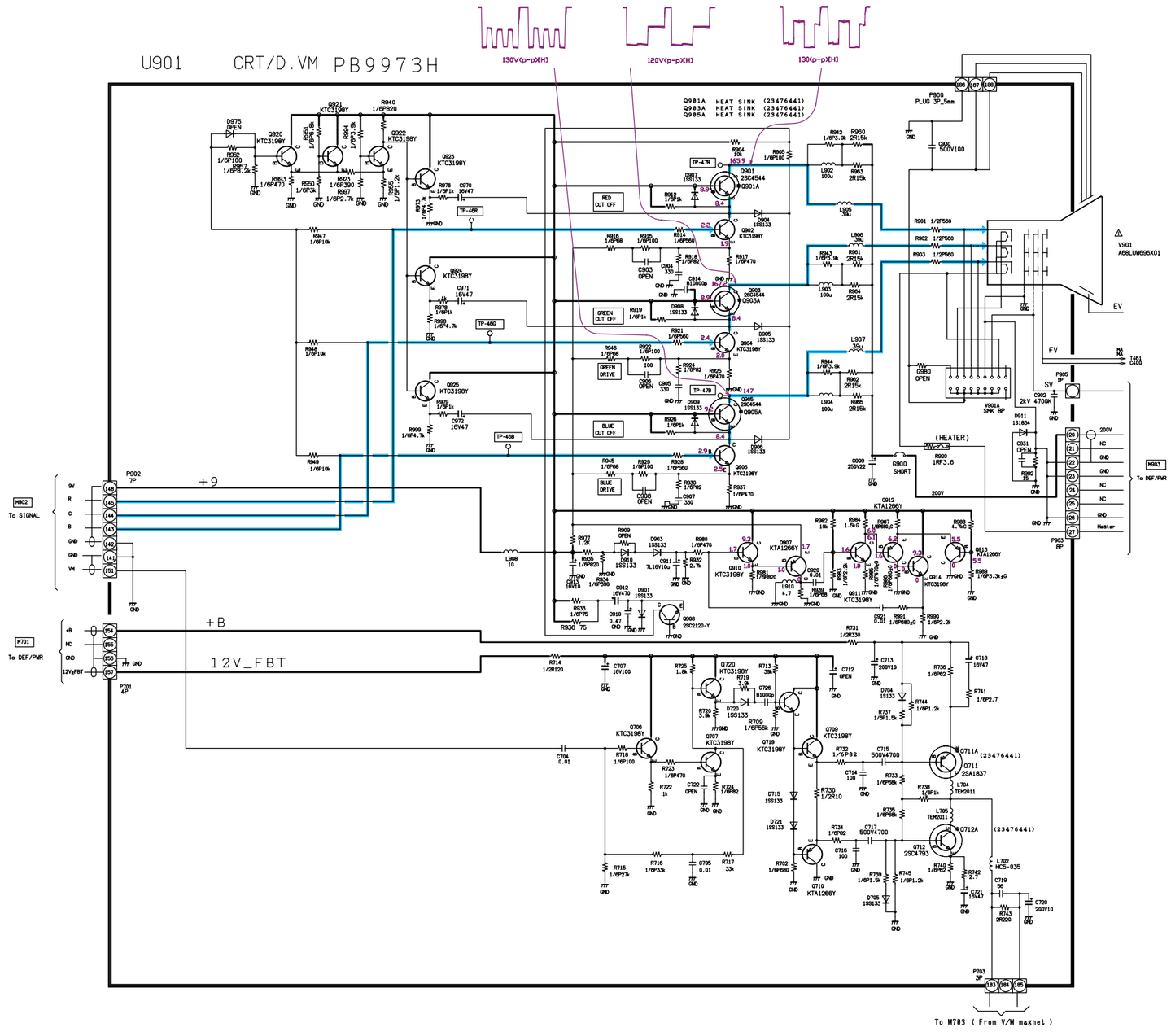
[Sheet7/7]


HY01
EL955X1
TN-EL955LX1
RF AGC
VR (nc)
ADRS
SCL
SDA
NC
+5V
NC
+32V
NC
IF
TP (nc)
1
2
3
4
5
6
7
8
9
10
11
12
4.5
4.5
32.0
D112
OPEN
C117
16V220
C115
B1000p
GND
L121
1.0
L122
1.0
C112
10V220
L111
47u COILTRF4470AT
1-A5
2-D1
SCL
1-A5
2-D1
SDA
1-A4
4-E7
5V2
1-A5
1-A5
3-C1
32V
1-A4
2-B1
4-D7
9V

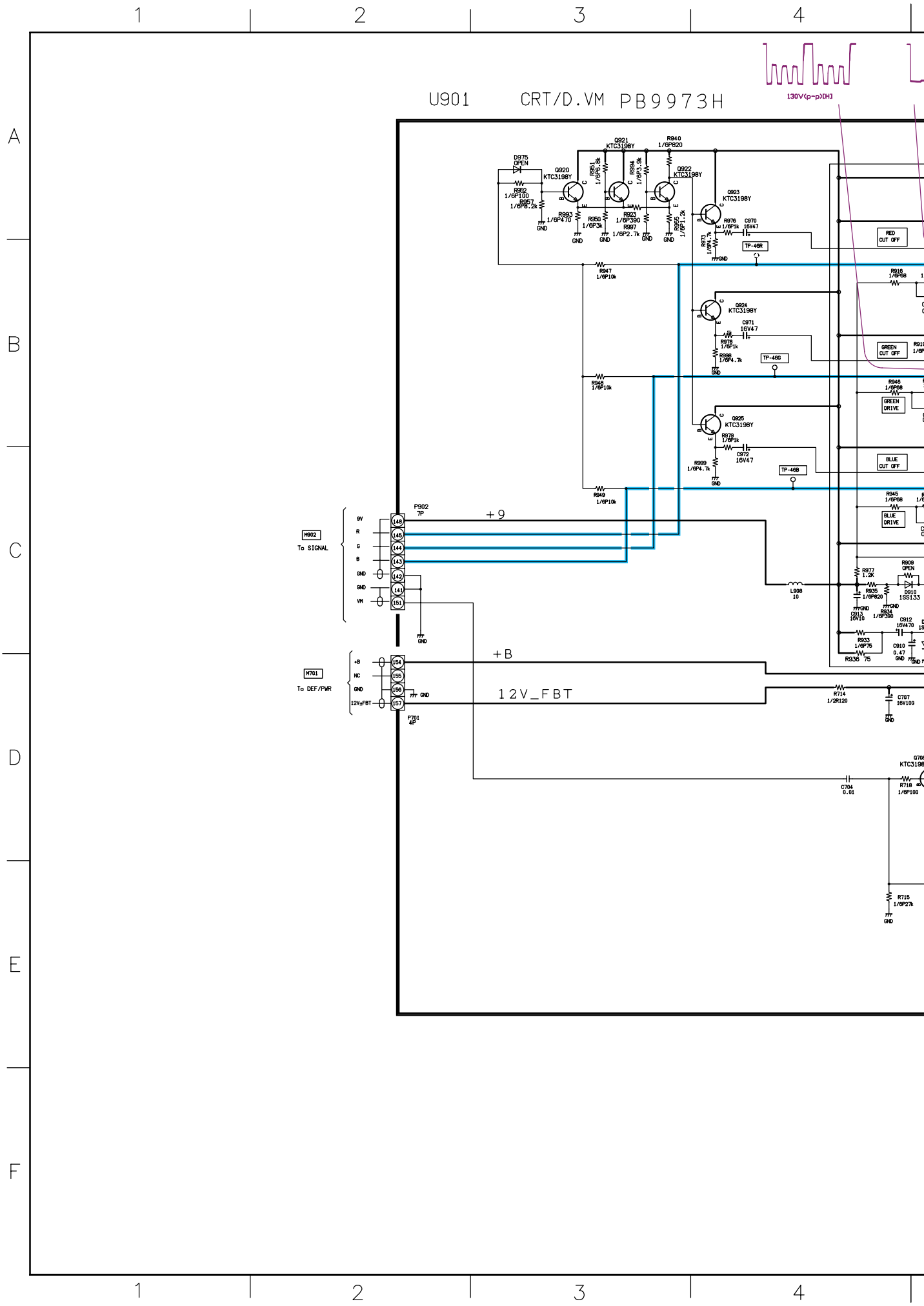


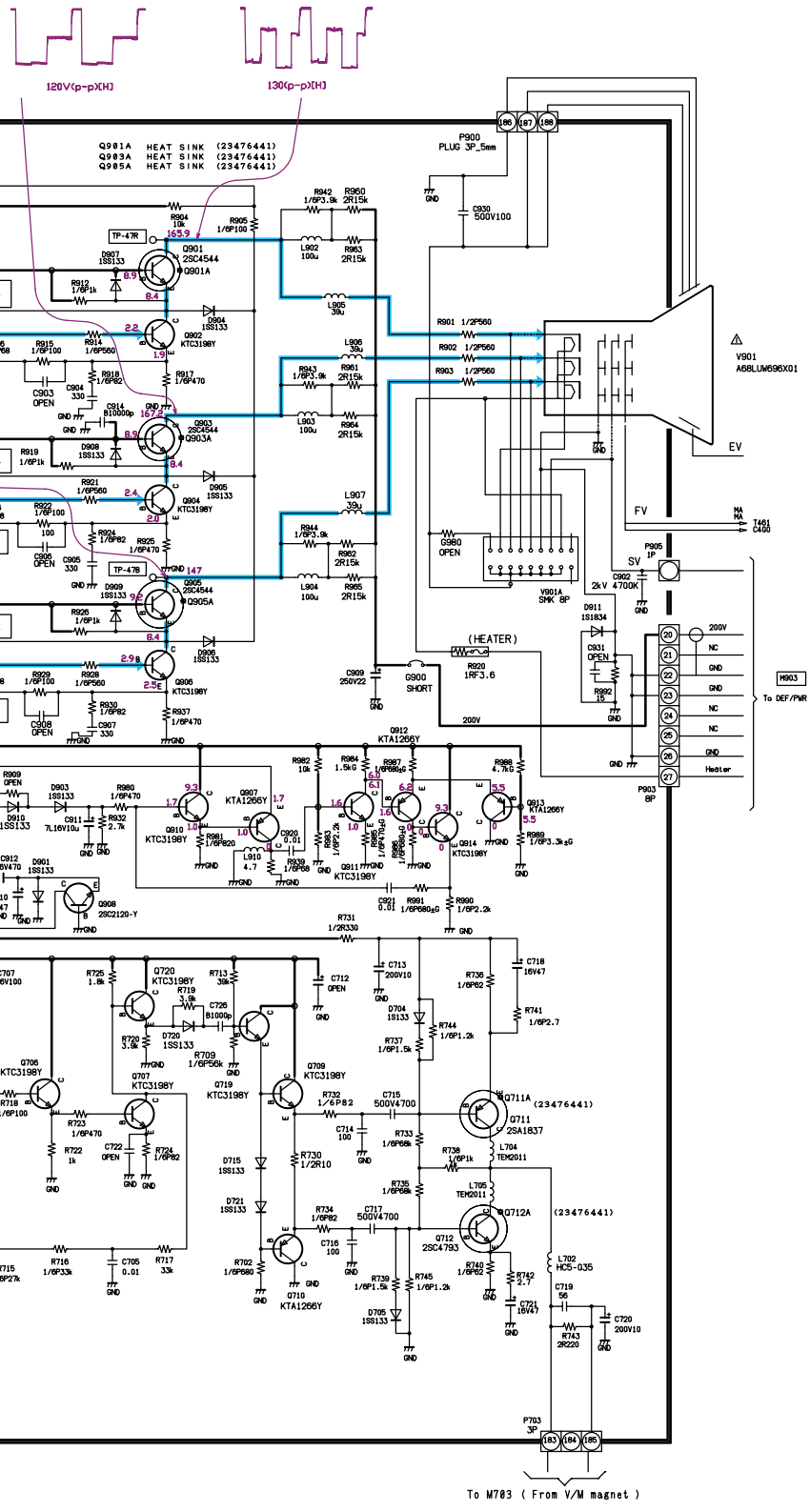
27AF62/27AF42
POWER/DEF—SUB—TUNER
[Sheet7/7]

U901 CRT/D.VM PB9973H



27AF62/27AF42
CRT-D VM


U901 CRT/D.VM PB9973H
130V(p-p)[H]
Q921 KTC3198Y
R940 1/6P820
D975 OPEN
Q920 KTC3198Y
R951 1/6P6.8k
R954 1/6P3.3k
Q922 KTC3198Y
R952 1/6P100
R957 1/6P8.2k
R993 1/6P470
R950 1/6P3k
R923 1/6P390
R997 1/6P2.7k
R995 1/6P1.2k
Q923 KTC3198Y
R976 1/6P1k
C970 16V47
R973 1/6P4.7k
RED CUT OFF
TP-46R
R947 1/6P10k
Q924 KTC3198Y
C971 16V47
R978 1/6P1k
R998 1/6P4.7k
GREEN CUT OFF
TP-46G
R948 1/6P10k
R946 1/6P68
GREEN DRIVE
Q925 KTC3198Y
R979 1/6P1k
C972 16V47
R999 1/6P4.7k
BLUE CUT OFF
TP-46B
R949 1/6P10k
R945 1/6P68
BLUE DRIVE
P902 7P
H902
To SIGNAL
9V
R
G
B
GND
GND
VM
148
145
144
143
142
141
151
+9
L908 10
R977 1.2k
R909 OPEN
R935 1/6P820
D910 1SS133
R934 1/6P390
C913 16V10
C912 16V470
R933 1/6P75
R936 75
C910 0.47
M701
To DEF/PWR
+B
12V_FBT
+8
NC
GND
12V_FBT
154
156
156
157
P701 4P
R714 1/2R120
C707 16V100
C704 0.01
R718 1/6P100
R715 1/6P27k
GND


120V(p-p)[H]
130(p-p)[H]
Q901A HEAT SINK (23476441)
Q903A HEAT SINK (23476441)
Q905A HEAT SINK (23476441)
P900
PLUG 3P_5mm
V901
A68LUW696X01
EV
FV
SV
(HEATER)
To M703 (From V/M magnet)
To DEF/PWR
200V
NC
GND
Heater